WEEKLY BULLETINS OF MASS. STATE BOARD OF HEALTH

1897

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Weekly Bulletin

OF THE

Mass.; STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Jan. 2, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. ~~XIV.~~ XV No. 53.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

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GERARD C. TOBEY, Esq., Wareham.
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JULIAN A. MEAD, M.D., Watertown.

SAMUEL W. ABBOTT, M.D., *Secretary.*

RY OF MASSACHUSETTS

MORTALITY OF MASSACHUSETTS

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For the Week ending January 2, 1897.

STATE HOUSE, BOSTON

Deaths reported to the State Board of Health in 28 Cities and Greater Towns.

Mass. Public Health Library

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

The population employed in this summary is that of the State census of 1895.

CITIES AND TOWNS.	Population. 1895.	Reported Deaths in Each.	Deaths under five years.	Deaths from Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	496,920	250	70	28	51	..	5	16
Worcester,	98,767	32	13	2	13	1	..	1
Fall River,	89,203	35	13	8	8	3	..	3
Lowell,	84,367	34	13	4	2	..	2	1
Cambridge,	81,643	28	6	3	4	1	..	..
Lynn,	62,354	22	..	5	2	..	1	1
New Bedford,	55,251	25	9	3	3	..	..	2
Somerville,	52,200	22	6	2	5	1	..	1
Lawrence,	52,164	8	3	..	..	..	..	..
Springfield,	51,522	21	4	2	6	..	..	2
Holyoke,	40,322	..	..	..	..	..	..	..
Salem,	34,473	11	6	1	..	..	..	1
Brockton,	33,165	8	1	..	..	..	..	..
Chelsea,	31,264	..	..	..	..	..	..	..
Haverhill,	30,209	14	5	..	6	..	..	..
Malden,	29,709	4	1	..	2	..	..	..
Gloucester,	28,211	..	..	..	..	..	..	..
Newton,	27,590	7	0	1	1	..	..	1
Taunton,	27,115	11	0	..	..	..	..	..
Fitchburg,	26,409	6	2	..	..	..	..	..
Waltham,	20,876	9	3	..	..	..	..	..
Quincy,	20,712	7	1	..	1	..	..	..
Pittsfield,	20,461	..	..	..	..	..	..	..
North Adams,	19,135	6	3	1	2	..	..	..
Everett,	18,573	9	5	1	..	..	1	..
Northampton,	16,746	..	..	..	..	..	..	..
Chicopee,	16,420	..	..	..	..	..	..	..
Brookline,	16,164	2	0	..	..	..	..	..
Marlborough,	14,977	..	..	..	..	..	..	..
Newburyport,	14,552	10	0	..	2	..	..	..
Medford,	14,474	2	1	..	..	..	..	..
Woburn,	14,178	11	4	..	..	..	..	..
Melrose,	11,965	2	0	1	..	..	..	1
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	11,806	..	..	..	..	..	..	..
Clinton,	11,497	1	0	..	..	..	..	..
Weymouth,	11,291	..	..	..	..	..	..	..
Westfield,	10,663	7	1	1	2	..	..	1
Peabody,	10,597	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,505,850	604	170	60	110	6	9	31

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DEATHS FROM PREVALENT DISEASES IN 28 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Sixty-three deaths were reported from the principal infectious diseases; diphtheria and croup, 31; typhoid fever, 9; diarrhœal diseases, 6; cerebro-spinal meningitis, 5; measles, 4; erysipelas, 4; scarlet fever, 2; whooping-cough, 2.

No deaths were reported from small-pox, puerperal fever and malarial fever.

There were 170 deaths from acute lung diseases; consumption, 68; and still-births, 56.

From cerebro-spinal meningitis: Lynn, 2; Boston, Lowell and North Adams, 1 each. From measles: Boston, 2; Fall River and Lynn, 1 each. From erysipelas: Boston, Fall River, Cambridge and New Bedford, 1 each. From scarlet-fever: Boston, 2. From whooping-cough: Boston and Cambridge, 1 each.

Deaths under five years of age numbered 170, as compared with 141 for the preceding week.

Deaths from the principal infectious diseases numbered 63, as compared with 53 for the previous week.

The death rates for the week were: Boston, 23.16; Worcester, 16.84; Fall River, 20.40; Lowell, 20.95; Cambridge, 17.90; Lynn, 18.32; New Bedford, 23.52; Somerville, 21.91; Lawrence, 7.96; Springfield, 21.18; Holyoke, ——; Salem, 16.58; Brockton, 12.54; Chelsea, ——; Haverhill, 23.81; Malden, 7.00; Gloucester, ——; Newton, 13 19; Taunton, 21.09; Fitchburg, 11.82; Waltham, 22.41; Quincy, 17.50; Pittsfield, ——; North Adams, 16.32; Everett, 25.20; Northampton, ——; Chicopee, ——; Marlborough, ——; Newburyport, 35.70; Medford, 7.18; Woburn, ——.

The total death rate for the week was 20.85 as compared with 18.23 and 17.81 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING JANUARY 2, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever, ...	113.	Measles.	380.
Diphtheria and croup, ...	218.	Typhoid fever, ...	45.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Jan. 2, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.		8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
December, 1896.																
Sunday, 27,	30.80	12	20	4	57	51	54	N. W.	N. W.	9	6		C.	C.		0.00
Monday, 28,	30.77	21	33	9	45	58	52	S. W.	S. W.	8	13		C.	C.		0.00
Tuesday, 29,	30.40	33	40	26	53	58	56	S. W.	W.	13	13		O.	O.		0.00
Wednes'y, 30,	30.26	38	45	30	90	75	82	W.	S. W.	9	12		O.	C.		0.00
Thursday, 31,	30.35	35	45	25	65	47	56	W.	N. W.	12	14		C.	C.		0.00
January, 1897.																
Friday, 1,	30.76	26	34	19	70	79	74	N. W.	S. E.	9	14		O.	C.		0.00
Saturday, 2,	30.62	38	47	28	73	84	78	S. W.	S. W.	10	10		O.	C.		0.00
Week, - -	30.55		38	20			65									

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

MONTHLY MORTALITY

In 7 smaller towns of Massachusetts, as reported to the State Board of Health for the month of December.

The total death rate of reporting towns was 11.3.

TOWNS.	Population, 1895.	Reported Deaths in Each.	Deaths under five years of age.	Deaths from				
				Infectious Diseases.	Lung Diseases.	Consumption.	Diarrhœal Diseases.	Diphtheria and Croup.
Amesbury,	9,986	5	1	..	..	2	..	..
Revere,	7,423	12	2	..	2	2	..	..
Orange,	5,361	3	0	..	..	3	..	..
Hudson,	5,308	8	2	..	..	4	..	..
Easthampton,	4,790	5	1	1	..	..	1	..
Merrimac,	2,301	1	0	..	..	..	..	..
Norton,	1,614	1	0	..	1	..	..	..
Total of reporting towns,	36,783	35	6	1	3	11	1	0

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Jan. 9, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 1.

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This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending January 9, 1897.

Deaths reported to the State Board of Health in 30 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Acute Lung Diseases.	Typhoid Fever.	Diphtheria and Croup.	Scarlet Fever.
Boston,	517,732	222	49	21	32	4	9	4
Worcester,	105,050	37	12	2	14	..	1	..
Fall River,	95,919	41	17	3	17	..	..	..
Lowell,	87,193	31	12	3	5	1	1	..
Cambridge,	86,812	22	6	2	2	1	1	..
Lynn,	65,220	20	..	3	1	..	2	..
New Bedford,	62,416	28	6	1	3	1	..	..
Somerville,	57,977	12	3	3	..	..	..	..
Lawrence,	55,510	16	12	..	3	..	..	..
Springfield,	54,790	15	2	1	1	..	1	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	13	4	..	2	..	..	..
Brockton,	35,853	6	3	1	2	..	1	..
Malden,	32,894	11	3	2	5	1	1	..
Chelsea,	32,716	14	3	..	2	..	..	..
Haverhill,	31,406	6	1	1	1	..	1	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	8	0	..	..	..	..	..
Fitchburg,	28,392	17	4	..	4	..	..	..
Taunton,	27,812	11	1	..	1	..	..	..
Quincy,	22,562	7	4	1	2	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	4	1	..	1	..	..	..
Everett,	21,575	5	1	2	1	..	2	..
North Adams,	19,135	10	2	..	2	..	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	4	1	1	..	..	..	..
Medford,	15,832	3	0	..	1	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	7	1	1	1	..	1	..
Woburn,	14,449	5	5	..	..	..	..	..
Melrose,	11,965	5	2	6	1	..	1	3
Hyde Park,	11,826	4	1	3	1	..	2	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	4	1	2	..	..	..	1
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	3	0	1	..	1	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Typhoid Fever.	Diphtheria and Croup.	Scarlet Fever.
Total of reporting towns,	1,434,918	591	157	60	105	9	24	8

DEATHS FROM PREVALENT DISEASES IN 30 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Sixty deaths were reported from the principal infectious diseases; diphtheria and croup, 25; typhoid fever, 9; scarlet fever, 8; measles, 7; cerebro-spinal meningitis, 5; diarrhœal diseases, 4; whooping-cough and erysipelas, each 1.

No deaths were reported from small-pox, puerperal fever and malarial fever.

There were 105 deaths from acute lung diseases; consumption, 63; and still-births, 37.

From measles: Boston, Fall River and Melrose, 2 each; Quincy, 1. From cerebro-spinal meningitis: Boston, Worcester, Lynn, Somerville and Clinton, 1 each. From diarrhœal diseases: Somerville, 2; Fall River and Hyde Park, 1 each. From whooping-cough: Boston, 1. From erysipelas: Lowell, 1.

Deaths under five years of age numbered 157, as compared with 170 for the preceding week.

Deaths from the principal infectious diseases numbered 60, the same as for the preceding week.

The death rates for the week were: Boston, 21.28; Worcester, 15.34; Fall River, ——; Lowell, 19.07; Cambridge, 17.40; Lynn, 18 33; New Bedford, 19.15; Somerville, 6.27; Lawrence, 18.48; Springfield, 10.43; Holyoke, ——; Salem, 15.86; Brockton, 14.50; Malden, 9.66; Chelsea, 12.09; Haverhill, 6.62; Gloucester, ——; Newton, 8.97; Fitchburg, 18.32; Taunton, 24.31; Quincy, 9.22; Pittsfield, ——; Waltham, 9.52; North Adams, 10.88; Everett, 14.52; Northampton, ——; Chicopee, ——; Medford, 16.10; Marlborough, ——; Newburyport, 10.54; Woburn, 14.36.

The total death rate for the week was 21.41 as compared with 20.85 and 18.23 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING JANUARY 9, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever,	132.	Measles.	506.
Diphtheria and croup,	213.	Typhoid fever,	33.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Jan. 9, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.		8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 3,	30.46	46	53	40	79	84	82	S. W.	S. W.	12	10		O.	C.		0.00
Monday, 4,	30.15	46	54	38	78	100	89	S. W.	E.	6	7		O.	R.		0.69
Tuesday, 5,	29.65	48	60	23	96	87	92	S. E.	W.	12	15		C.	C.		0.00
Wednes'y, 6,	29.76	32	39	26	81	87	84	W.	S. W.	7	20		C.	C.		0.00
Thursday, 7,	30.26	31	37	25	72	61	66	W.	N.	10	7		C.	C.		0.00
Friday, 8,	30.39	23	27	19	77	64	70	N.	N.	16	20		O.	F.		0.00
Saturday, 9,	30.14	24	30	17	64	52	58	N.	S.	12	8		O.	C.		0.00
Week, - -	30.11		43	27			77									

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of December.

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk, . . .	246	192	438	Maple Syrup, . .	5	2	7
Butter, . . .	56	0	56	Canned Goods, .	..	..	..
Cheese, . . .	13	0	13	Honey, . . .	8	13	21
Lard, . . .	6	0	6	Tea, . . .	7	0	7
Olive Oil, . . .	1	2	3	Coffee, . . .	12	2	14
Vinegar, . . .	0	1	1	Cocoa, . . .	2	1	3
Spices, . . .	105	10	115	Confectiouery, .	1	0	1
Cream of Tartar, .	29	0	29	Other articles of Food and Drinks,	16	2	18
Molasses, . . .	9	1	10	Drugs, . . .	42	33	75
Syrups, . . .	..	..	..				
Maple Sugar, . .	1	0	1				
				Totals, . .	559	259	818

Percentage of adulteratiou, 31.6. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour, and the various other cereal products, are very rarely adulterated, and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration.

The ratio of samples of milk found to be below the standard was 43.8 per cent., as compared with 36.6 per cent. for the preceding mouth.

Seven complaints were entered in the courts during the month for violation of the laws relative to the inspection of Food and Drugs. Six of these were for violation of the statutes relative to the sale of Milk and one of Honey.

The samples of drugs fouud to be adulterated were Distilled Water, Compound Spirits of Ether, Gin, Irou and Quinine Citrate, Nitrate of Silver, Oil of Lemon and Tincture of Iodine.

Cities and towns from which samples of food were collected: Bostou, Worcester, Fall River, Cambridge, Somerville, Lawrence, Chelsea, Maldeu, Newton, Fitchburg, Waltham, Quincy, Everett, Brookliue, Dedham, Dudley, Framingham, Hyde Park, Milford, Natick, Spencer, Stoughton, Webster aud Winchester.

Weekly Bulletin

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MASSACHUSETTS

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MORTALITY OF MASSACHUSETTS

For the Week ending January 16, 1897.

Deaths reported to the State Board of Health in 27 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

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				Principal Infectious Diseases.	Acute Lung Diseases.	Typhoid Fever.	Diphtheria and Croup.	Scarlet Fever.
Boston,	517,732	212	60	26	41	5	11	6
Worcester,	105,050	31	14	4	7	..	2	..
Fall River,	95,919	..	..	..	..	..	..	..
Lowell,	87,193	32	11	4	6	..	2	..
Cambridge,	86,812	29	13	2	9	..	1	..
Lynn,	65,220	23	9	3	2	..	2	..
New Bedford,	62,416	23	7	4	3	..	3	..
Somerville,	57,977	7	3	1	..	..	..	..
Lawrence,	55,510	19	6	4	3	..	3	..
Springfield,	54,790	11	1	..	1	..	..	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	11	4	..	..	..	..	..
Brockton,	35,853	10	2	1	1	..	1	..
Malden,	32,894	6	1	..	1	..	..	..
Chelsea,	32,716	12	4	1	3	..	..	..
Haverhill,	31,405	4	1	..	..	..	..	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	5	0	..	..	..	..	..
Fitchburg,	28,392	10	5	2	2	..	2	..
Taunton,	27,812	13	2	..	2	..	..	..
Quincy,	22,562	4	1	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	4	1	1	1	1	..	..
Everett,	21,575	6	3	2	..	..	2	..
North Adams,	19,135	4	0	1	..	..	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	..	..	..	..	..	..	..
Medford,	15,832	5	2	..	2	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	3	0	..	..	..	..	..
Woburn,	14,449	4	2	..	1	..	..	..
Melrose,	11,965	4	3	3	..	..	2	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	3	1	..	1	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	3	0	..	1	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Typhoid Fever.	Diphtheria and Croup.	Scarlet Fever.
Total of reporting towns,	1,511,109	498	156	59	87	6	31	6

DEATHS FROM PREVALENT DISEASES IN 27 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Fifty-nine deaths were reported from the principal infectious diseases; diphtheria and croup, 31; typhoid fever, scarlet fever and cerebro-spinal meningitis, each 6; diarrhœal diseases and whooping-cough, each 3; puerperal fever, 2; measles, 1.

No deaths were reported from small-pox and malarial fever.

There were 87 deaths from acute lung diseases; consumption, 81; and still-births, 34.

From cerebro-spinal meningitis: Worcester, 2; Boston, Lynn, Chelsea and Quincy, 1 each. From diarrhœal diseases: New Bedford, Lawrence and North Adams, 1 each. From whooping-cough: Lowell, Cambridge and Melrose, 1 each. From puerperal fever: Lowell and Somerville, 1 each. From measles: Boston, 1.

Deaths under five years of age numbered 156, as compared with 157 for the preceding week.

Deaths from the principal infectious diseases numbered 59, as compared with 60 for the preceding week.

The death rates for the week were: Boston, 11.28; Worcester, 15.34; Fall River, ——; Lowell, 19.07; Cambridge, 17.40; Lynn, 23 88; New Bedford, 19.45; Somerville, 6.47; Lawrence, 18.48; Springfield, 10.43; Holyoke, ——; Salem, 15.86; Brockton, 14.50; Malden, 9.66; Chelsea, 12.09; Haverhill, 6.62; Gloucester, ——; Newton, 8.96; Fitchburg, 18.32; Taunton, 24.31; Quincy, 9.22; Pittsfield. 14.52; Waltham, 9.72; North Adams, 10.88; Everett, 14.52; Northampton, ——; Chicopee, ——; Medford, 16.10; Marlborough, ——; Newburyport, 10.54; Woburn, 14.36.

The total death rate for the week was 16.47 as compared with 21.41 and 18.23 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING JANUARY 16, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever, ...	118.	Measles.	415.
Diphtheria and croup, ...	215.	Typhoid fever, ...	38.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Jan. 16, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.		8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 10,	29.82	36	43	30	65	70	68	S. W.	N. W.	9	14		O.	C.		0.00
Monday, 11,	29.74	35	40	30	74	79	76	S. W.	W.	6	6		F.	C.		0.00
Tuesday, 12,	29.89	20	30	9	75	60	68	N. W.	N.	8	12		O.	C.		0.00
Wednes'y, 13,	30.29	16	27	6	76	45	59	N. W.	N.	12	8		C.	O.		0.00
Thursday, 14,	30.28	23	28	18	57	63	60	N. W.	S. W.	5	4		O.	O.		0.00
Friday, 15,	30.27	28	31	24	73	88	78	N. W.	S. E.	12	18		O.	O.		0.00
Saturday, 16,	30.26	34	43	24	88	75	72	N. W.	W.	4	28		N.	C.		0.00
Week, - -	30.22		34	20			69									

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Jan. 23, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 3.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

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CHARLES H. PORTER, Quincy.
JULIAN A. MEAD, M.D., Watertown.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending January 23, 1897.

Deaths reported to the State Board of Health in 25 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such retnrns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	517,732	200	56	21	46	2	4	8
Worcester,	105,050	30	18	5	5	..	..	2
Fall River,	95,919	36	12	7	6	4	1	1
Lowell,	87,193	32	10	5	8	2	1	..
Cambridge,	86,812	32	9	7	2	2	..	3
Lynn,	65,220	20	2	6	1	..	3	1
New Bedford,	62,416	15	6	1	1	1	..	..
Somerville,	57,977	11	3	1	2	..	..	..
Lawrence,	55,510	..	..	..	..	..	..	..
Springfield,	54,790	12	1	..	1	..	..	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	10	6	1	1	..	..	1
Brockton,	35,853	..	..	..	..	..	..	..
Malden,	32,894	9	1	..	2	..	..	..
Chelsea,	32,716	16	6	3	..	..	..	2
Haverhill,	31,406	14	5	..	2	..	..	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	9	3	1	..	..	1	..
Fitchburg,	28,392	13	6	1	1	..	..	1
Taunton,	27,812	5	1	..	..	..	..	..
Quincy,	22,562	5	1	..	2	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	3	0	..	1	..	..	..
Everett,	21,575	..	..	..	..	..	.	..
North Adams,	19,135	2	1	..	1	..	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	5	2	..	..	..	..	..
Medford,	15,832	7	1	..	1	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	8	4	..	..	..	..	..
Woburn,	14,449	4	3	..	..	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	1	1	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	2	0	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseasrs.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,498,289	501	158	59	83	11	10	19

DEATHS FROM PREVALENT DISEASES IN 25 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Fifty-nine deaths were reported from the principal infectious diseases; diphtheria and croup, 19; diarrhœal diseases, 11; typhoid fever, 10; cerebro-spinal meningitis, 5; measles, 6; whooping-cough, 3; scarlet fever, 3; erysipelas, 1; puerperal fever, 1.

No deaths were reported from small-pox and malarial fever.

There were 83 deaths from acute lung diseases; consumption, 50; and still-births, 23.

From measles: Boston, Worcester, Lowell, Cambridge, Lynn and Somerville, 1 each. From cerebro-spinal meningitis: Worcester, 2; Boston, Cambridge and Lynn, 1 each. From whooping-cough: Fall River, Lowell and Chelsea, 1 each. From scarlet fever: Boston, 3. From erysipelas: Boston, 1. From puerperal fever: Boston, 1.

Deaths under five years of age numbered 158, as compared with 156 for the preceding week.

Deaths from the principal infectious diseases numbered 59, as compared with 59 for the preceding week.

The death rates for the week were: Boston, 20.08; Worcester, 14.85; Fall River, 19.44; Lowell, 19.07; Cambridge, 19.20; Lynn, 15.94; New Bedford, 12.49; Somerville, 9.85; Lawrence, ——; Springfield, 11.38; Holyoke, ——; Salem, 14.42; Brockton, ——; Malden, 14.49; Chelsea, 16.12; Haverhill, 23.17; Gloucester, ——; Newton, 16.13; Fitchburg, 23.81; Taunton, 9.35; Quincy, 11.52; Pittsfield. ——; Waltham, 7.29; Everett, ——; North Adams, 5.44; Northampton, ——; Chicopee, ——; Medford, 22.54; Marlborough, ——; Newburyport, 28.11; Woburn, 14.36.

The total death rate for the week was 17.38, as compared with 16.47 and 21.41 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING JANUARY 23, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever, ...	103.	Measles.	479.
Diphtheria and croup, ...	226.	Typhoid fever, ...	36.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Jan. 23, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.		MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.			8 A. M.	8 P. M.		HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 17,	30.17	35	41	29	74	87		80	S.	S. E.	4	18			C.	C.			0.00
Monday, 18,	29.62	35	52	18	87	63		75	S. W.	W.	14	28			O.	C.			0.25
Tuesday, 19,	30.36	10	18	2	13	53		33	N. W.	W.	18	8			C.	C.			0.00
Wednes'y, 20,	30.52	16	27	6	42	93		68	W.	S. E.	5	14			C.	N.			0.00
Thursday, 21,	29.68	38	49	27	95	84		90	E.	W.	29	13			R.	O.			0.66
Friday, 22,	29.68	36	40	32	61	57		59	W.	S. W.	16	11			C.	O.			0.00
Saturday, 23,	29.62	30	36	23	55	64		60	W.	W.	17	19			O.	C.			0.08
Week, - -	29.94		38	19				66											0.99

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Jan. 30, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 4.

Entered at the post-office at Boston as second-class matter.

Tbis publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

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CHARLES H. PORTER, Quincy.
JULIAN A. MEAD, M.D., Watertown.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending January 30, 1897.

Deaths reported to the State Board of Health in 28 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued. to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns aud is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	517,732	237	71	27	43	..	2	19
Worcester,	105,050	40	19	5	7	..	..	3
Fall River,	95,919	37	15	11	4	7	2	2
Lowell,	87,193	36	20	2	6	..	..	1
Cambridge,	86,812	24	3	2	..	1	..	1
Lynn,	65,220	16	..	..	4	..	..	..
New Bedford,	62,416	26	8	3	3	1	..	1
Somerville,	57,977	14	3	1	1	..	..	..
Lawrence,	55,510	26	9	2	7	..	..	1
Springfield,	54,790	17	3	..	1	..	..	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	11	3	..	..	..	..	..
Brockton,	35,853	..	..	..	..	..	..	..
Malden,	32,894	4	2	1	1	..	..	1
Chelsea,	32,716	10	4	2	3	..	..	2
Haverhill,	31,406	9	1	1	4	..	..	1
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	4	0	..	1	..	..	..
Fitchburg,	28,392	6	1	..	..	..	..	..
Taunton,	27,812	9	2	2	1	..	2	..
Quincy,	22,562	..	..	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	3	0	..	..	..	..	..
Everett,	21,575	4	0	2	..	..	..	2
North Adams,	19,135	6	2	..	2	..	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	2	1	..	1	..	..	..
Medford,	15,832	2	0	..	2	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newbnryport,	14,794	4	1	..	..	..	..	..
Woburn,	14,449	3	2	..	1	..	..	..
Melrose,	11,965	1	0	..	..	..	..	..
Hyde Park,	11,826	4	0	..	2	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	5	2	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	4	1	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,376,503	564	173	61	94	9	6	34

DEATHS FROM PREVALENT DISEASES IN 28 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Sixty-one deaths were reported from the principal infectious diseases; diphtheria and croup, 34; diarrhœal diseases, 9; typhoid fever, 6; cerebro-spinal meningitis and scarlet fever, each 3; measles, 2; whooping-cough and erysipelas, each 1; puerperal fever, 2.

No deaths were reported from small-pox and malarial fever.

There were 94 deaths from acute lung diseases; consumption, 62; and still-births, 40.

From cerebro-spinal meningitis: Worcester, Lowell and Somerville, 1 each. From scarlet fever: Boston, 2; Lawrence, 1. From measles: Boston and Worcester, 1 each. From whooping-cough: Boston, 1. From erysipelas: Boston, 1.

Deaths under five years of age numbered 173, as compared with 158 for the preceding week.

Deaths from the principal infectious diseases numbered 61, as compared with 59 for the preceding week.

The death rates for the week were: Boston, 23.79; Worcester, 19.80; Fall River, 19.98; Lowell, 21.45; Cambridge, 14.40; Lynn, 12 85; New Bedford, 21.65; Somerville, 12.54; Lawrence, 23.49; Springfield, 15.43; Holyoke, ——; Salem, 15.86; Brockton, ——; Malden, 6.44; Chelsea, 10.08; Haverhill, 14.89; Gloucester, ——; Newton, 7.17; Fitchburg, 10.99; Taunton, 16.83; Quincy, ——; Pittsfield. ——; Waltham, 7.29; Everett, 9.68; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 6.44; Marlborough, ——; Newburyport, 14.05; Woburn, 10.77.

The total death rate for the week was 21.30, as compared with 17.38 and 16.47 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING JANUARY 30, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever, ...	128.	Measles, ...	393.
Diphtheria and croup, ...	256.	Typhoid fever, ...	45.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*		RAIN-FALL	
Week ending Saturday, Jan. 30, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.		8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 24,	29.84	18	25	11	58	62	60	S. W.	W.	8	20		O.	F.		0.00
Monday, 25,	29.64	12	16	7	51	48	50	W.	S. W.	24	30		C.	C.		0.00
Tuesday, 26,	29.58	22	32	12	54	52	53	S. W.	W.	24	15		F.	C.		0.00
Wednes'y, 27,	29.89	26	32	21	59	94	76	S. W.	N.	8	3		C.	N.		0.00
Thursday, 28,	29.30	26	32	19	100	89	94	N. E.	W.	30	16		N.	N.		1.48
Friday, 29,	29.87	24	31	18	65	54	60	W.	S. W.	13	14		C.	C.		0.00
Saturday, 30,	30.42	24	31	16	70	55	62	N. W.	N. W.	10	12		C.	C.		0.00
Week, - -	29.51		28	15			65									1.48

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Feb. 6, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 5

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

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CHARLES H. PORTER, Quincy.
JULIAN A. MEAD, M.D., Watertown.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending February 6, 1897.

Deaths reported to the State Board of Health in 28 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	517,732	244	87	37	40	3	3	23
Worcester,	105,050	36	14	3	6	1	..	1
Fall River,	95,919	37	11	4	11	3	1	..
Lowell,	87,193	40	13	2	9	..	..	2
Cambridge,	86,812	37	6	6	4	1	1	3
Lynn,	65,220	21	..	2	4	..	..	1
New Bedford,	62,416	21	2	1	3	1	..	..
Somerville,	57,977	17	6	2	2	1	..	..
Lawrence,	55,510	20	6	3	5	..	1	2
Springfield,	54,790	15	3	1	1	..	1	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	12	4	..	1	..	..	..
Brockton,	35,853	12	5	1	2	..	..	1
Malden,	32,894	8	0	..	2	..	..	..
Chelsea,	32,716	15	2	1	3	..	..	..
Haverhill,	31,405	14	5	2	4	..	1	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	9	1	..	2	..	..	..
Fitchburg,	28,392	6	4	2	2	..	..	2
Taunton,	27,812	12	4	..	3	..	..	..
Quincy,	22,562	7	3	..	1	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	4	1	..	1	..	..	..
Everett,	21,575	6	1	1	1	..	..	1
North Adams,	19,135	9	3	1	1	..	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	..	..	..	..	..	..	..
Medford,	15,832	8	3	..	1	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	3	1	1	1	..	..	1
Woburn,	14,449	4	1	..	..	..	..	..
Melrose,	11,965	2	0	..	1	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	3	1	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	3	1	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,606,027	625	185	70	111	10	8	37

DEATHS FROM PREVALENT DISEASES IN 28 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Seventy deaths were reported from the principal infectious diseases; diphtheria and croup, 37; diarrhœal diseases, 10; typhoid fever, 8; scarlet fever, 6; cerebro-spinal meningitis, 4; erysipelas, 3; whooping-cough, 1; measles, 1.

No deaths were reported from small-pox, puerperal fever and malarial fever.

There were 111 deaths from acute lung diseases; consumption, 78; and still-births, 44.

From scarlet fever: Boston, 5; Cambridge, 1. From cerebro-spinal meningitis: Worcester, Lynn, Somerville and Chelsea, 1 each. From erysipelas: Boston, Haverhill and North Adams, 1 each. From whooping-cough: Boston, 1. From measles: Boston, 1.

Deaths under five years of age numbered 185, as compared with 173 for the preceding week.

Deaths from the principal infectious diseases numbered 70, as compared with 61 for the preceding week.

The death rates for the week were: Boston, 24.49; Worcester, 17.82; Fall River, 14.58; Lowell, 23.84; Cambridge, 22.20; Lynn, 16 74; New Bedford, 17.49; Somerville, 15.23; Lawrence, 19.45; Springfield, 14.23; Holyoke, ——; Salem, 17.30; Brockton, 17.40; Malden, 12.88; Chelsea, 15.12; Haverhill, 23.17; Gloucester, ——; Newton, 16.13; Fitchburg, 10.99; Taunton, 22.44; Quincy, 16.13; Pittsfield. ——; Waltham, 9.72; North Adams, ——; Everett, 14.52; Northampton, ——; Chicopee, ——; Medford, 25.76; Marlborough, ——; Newburyport, 10.54; Woburn, 14.36.

The total death rate for the week was 20.23, as compared with 21.30 and 17.38 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING FEBRUARY 6, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever, ...	99.	Measles, ...	418.
Diphtheria and croup, ...	212.	Typhoid fever, ...	27.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Feb. 6, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
January.															
Sunday, 31,	30.68	24	33	15	67	84	76	N. W.	S. E.	9	3	C.	C.		0.00
February.															
Monday, 1,	30.42	30	41	18	64	41	52	S. W.	S. W.	13	8	F.	C.		0.00
Tuesday, 2,	29.98	28	36	20	79	78	78	N. W.	N.	4	12	O.	F.		0.00
Wednes'y, 3,	29.88	28	35	22	77	62	70	N.	N.	25	13	O.	C.		0.00
Thursday, 4,	30.26	24	29	18	63	66	64	N.	N. W.	19	6	O.	C.		0.00
Friday, 5,	30.46	27	35	19	60	67	64	N. W.	S. E.	6	7	C.	C.		0.00
Saturday, 6,	30.23	32	38	26	78	88	83	N.	N. E.	4	16	O.	O.		0.00
Week, - -	30.29		35	19			69								0.00

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

MONTHLY MORTALITY

In 6 smaller towns of Massachusetts, as reported to the State Board of Health for the month of January.

TOWNS.	POPULATION, 1895.	Reported Deaths in Each.	Deaths under five years of age.	DEATHS FROM				
				Infectious Diseases.	Acute Lung Diseases.	Consumption.	Diphtheria and Croup.	Scarlet Fever.
Amesbury,	9,986	7	1	..	2	3	..	..
Revere,	7,423	5	2	..	2	..	..	..
Palmer,	6,866	11	3	3	1	1	3	..
Orange,	5,361	3	0	..	..	2	..	..
Easthampton,	4,790	2	0	..	1	1	..	..
Merrimac,	2,301	3	0	1	..	..	..	1
Total of reporting towns,	36,727	31	6	4	6	7	3	1

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Feb. 13, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 6.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

HENRY P. WALCOTT, M.D., Cambridge, *Chairman.*
GERARD C. TOBEY, Esq., Wareham.
FRANK W. DRAPER, M.D., Boston.
HIRAM F. MILLS, C.E., Lawrence.
JAMES W. HULL, Pittsfield.
CHARLES H. PORTER, Quincy.
JULIAN A. MEAD, M.D., Watertown.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending February 13, 1897.

Deaths reported to the State Board of Health in 25 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued. to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diphtheria and Croup.	Cerebro Spinal Meningitis.	Scarlet-fever.
Boston,	517,732	247	75	21	41	10	1	5
Worcester,	105,050	35	8	3	11	..	3	..
Fall River,	95,919	34	14	5	10	..	..	..
Lowell,	87,193	44	24	3	8	2	..	..
Cambridge,	86,812	27	12	2	2	..	..	..
Lynn,	65,220	17	..	4	..	..	4	..
New Bedford,	62,416	20	12	1	8	1	..	..
Somerville,	57,977	9	3	..	1	..	..	..
Lawrence,	55,510	25	8	..	8	..	..	..
Springfield,	54,790	24	4	..	6	..	..	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	9	2	..	..	..	..	..
Brockton,	35,853	..	..	..	..	..	..	..
Malden,	32,894	9	3	..	2	..	..	..
Chelsea,	32,716	19	3	1	6	..	..	1
Haverhill,	31,406	..	..	..	..	..	..	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	10	0	..	2	..	..	..
Fitchburg,	28,392	8	2	..	1	..	..	..
Taunton,	27,812	10	1	1	1	1	..	..
Quincy,	22,562	..	..	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	7	2	..	1	..	..	..
Everett,	21,575	4	1	..	..	..	..	..
North Adams,	19,135	2	0	1	..	..	1	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	4	1	..	2	..	..	..
Medford,	15,832	4	1	..	..	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	3	2	2	..	2	..	..
Woburn,	14,449	5	2	..	1	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	4	2	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	1	0	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diphtheria and Croup.	Cerebro Spinal Meningitis.	Scarlet-fever.
Total of reporting towns,	1,521,406	581	182	44	111	16	9	6

DEATHS FROM PREVALENT DISEASES IN 25 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Forty-four deaths were reported from the principal infectious diseases; diphtheria and croup, 16; cerebro-spinal meningitis, 9; scarlet fever, 6; typhoid fever, 5; measles, whooping-cough, erysipelas and diarrhœal diseases, each 2.

No deaths were reported from small-pox, malarial fever and puerperal fever.

There were 111 deaths from acute lung diseases; consumption, 60; and still-births, 31.

From typhoid fever: Boston, 3; Fall River, 2. From measles: Lowell and Cambridge, 1 each. From whooping-cough: Fall River and Cambridge, 1 each. From erysipelas: Boston, 2. From diarrhœal diseases: Fall River, 2.

Deaths under five years of age numbered 182, as compared with 185 for the preceding week.

Deaths from the principal infectious diseases unmbered 44, as compared with 70 for the preceding week.

The death rates for the week were: Boston, 24.79; Worcester, 17.32; Fall River, 18.36; Lowell, 26.22; Cambridge, 16.20; Lynn, 13 55; New Bedford, 16.66; Somerville, 8.06; Lawrence, 24.31; Springfield, 22.77; Holyoke, ——; Salem, 12.97; Brockton, ——; Malden, 14.49; Chelsea, 19.15; Haverhill, ——; Gloucester, ——; Newton, 17.93; Fitchburg, 14.65; Taunton, 18.70; Quincy, ——; Pittsfield. ——; Waltham, 17.01; Everett, 9.68; North Adams,——; Northampton, ——; Chicopee, ——; Medford, 12.88; Marlborough, ——; Newburyport, 10.54; Woburn, 17.95.

The total death rate for the week was 19.79, as compared with 20.23 and 21.30 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING FEBRUARY 13, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever, ...	99.	Measles.	430.
Diphtheria and croup, ...	172.	Typhoid fever, ...	33.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Feb. 13, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 7,	29.66	42	45	38	100	100	100	E.	S. W.	24	10	R.	C.		0.40
Monday, 8,	29.83	40	45	36	93	89	91	S. W.	S. W.	8	10	C.	O.		0.00
Tuesday, 9,	29.99	36	40	31	91	87	89	N. W.	N. W.	8	12	O.	C.		0.00
Wednes'y, 10,	30.20	28	37	20	79	88	92	N. W.	N. W.	10	11	C.	C.		0.00
Thursday, 11,	30.27	22	30	14	61	57	59	N. W.	N.	12	12	F.	C.		0.00
Friday, 12,	29.87	19	24	14	71	100	86	E.	N.	15	15	N.	N.		0.54
Saturday, 13,	30.06	23	31	15	82	54	68	W.	N. W.	9	9	F.	C.		0.38
Week, - -	29.96		36	24			83								1.32

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of January.

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk, . . .	217	139	356	Maple Syrup, . .	8	2	10
Butter, . . .	57	0	57	Canned Goods, .	1	0	1
Cheese, . . .	13	0	13	Honey, . . .	12	3	15
Lard, . . .	..	..	..	Tea, . . .	6	0	6
Olive Oil, . . .	1	0	1	Coffee, . . .	2	0	2
Vinegar, . . .	2	4	6	Cocoa, . . .	2	1	3
Spices, . . .	121	15	136	Confectiouery, .	5	0	5
Cream of Tartar, .	41	1	42	Other articles of Food and Drinks,	7	4	11
Molasses, . . .	9	1	10	Drugs, . . .	25	13	38
Syrups, . . .	0	1	1				
Maple Sugar, . .	2	0	2				
				Totals, . .	531	184	715

Percentage of adulteration, 25.7. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour, and the various other cereal products, are very rarely adulterated, and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration.

The ratio of samples of milk found to be below the standard was 39.0 per cent., as compared with 36.6 per cent. for the preceding month.

No complaints were entered in the courts during the month for violation of the laws relative to the inspection of Food and Drugs.

The samples of drugs found to be adulterated were Alcohol, Compound Spirits of Ether, Distilled Water and Silver Nitrate.

Cities and towns from which samples of food were collected were: Boston, Fall River, Cambridge, New Bedford, Somerville, Brockton, Chelsea, Taunton, Waltham, Quincy, Everett, Medford, Woburn, Brookline, Dedham, Greenfield, Hudson, Natick, Northampton, Stoneham, Stoughton, Watertown and Winchester.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Feb. 20, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 7.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending February 20, 1897.

Deaths reported to the State Board of Health in 26 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Diphtheria and Croup.	Cerebro Spinal Meningitis.
Boston,	517,732	210	66	18	50	..	15	1
Worcester,	105,050	43	15	5	8	1	1	2
Fall River,	95,919	38	13	4	9	4	..	..
Lowell,	87,193	32	8	1	7	..	1	..
Cambridge,	86,812	26	4	3	8	1	1	1
Lynn,	65,220	21	7	2	1	..	..	2
New Bedford,	62,416	20	8	1	4	..	1	..
Somerville,	57,977	15	3	1	2	..	..	1
Lawrence,	55,510	15	8	1	4	..	..	1
Springfield,	54,790	16	2	1	5	1	..	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	28	7	..	7	..	..	..
Brockton,	35,853	14	3	3	..	..	2	1
Malden,	32,894	11	3	..	3	..	..	..
Chelsea,	32,716	14	4	2	1	..	..	1
Haverhill,	31,405	12	5	..	5	..	..	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	..	..	..	..	..	..	..
Fitchburg,	28,392	13	6	1	1	..	..	..
Taunton,	27,812	22	3	2	7	1	1	..
Quincy,	22,562	..	..	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	4	0	..	2	..	..	..
Everett,	21,575	7	0	1	1	..	1	..
North Adams,	19,135	6	1	2	..	..	1	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	4	0	..	3	..	..	..
Medford,	15,832	5	0	..	2	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	5	3	..	..	..	..	..
Woburn,	14,449	7	0	..	2	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	3	2	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	7	1	1	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Diphtheria and Croup.	Cerebro Spinal Meningitis.
Total of reporting towns,	1,559,674	598	172	49	132	8	24	10

DEATHS FROM PREVALENT DISEASES IN 26 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Forty-nine deaths were reported from the principal infectious diseases; diphtheria and croup, 24; cerebro-spinal meningitis, 10; diarrhœal diseases, 8; typhoid fever and erysipelas, 2 each; measles, scarlet fever and whooping-cough, 1 each.

No deaths were reported from small-pox, malarial fever and puerperal fever.

There were 132 deaths from acute lung diseases; consumption, 66; and still-births, 41.

From typhoid fever: Fitchburg and Westfield, 1 each. From erysipelas: Boston and Chelsea, 1 each. From measles: Boston, 1. From scarlet-fever: Worcester, 1. From whooping-cough: North Adams, 1.

Deaths under five years of age numbered 172, as compared with 182 for the preceding week.

Deaths from the principal infectious diseases numbered 49, as compared with 44 for the preceding week.

The death rates for the week were: Boston, 21.08; Worcester, 21.28; Fall River, 20.52; Lowell, 19.07; Cambridge, 15.60; Lynn, 16 74; New Bedford, 16.66; Somerville, 13.44; Lawrence, 14.59; Springfield, 15.18; Holyoke, ——; Salem, 40.37; Brockton, 20.30; Malden, 17.72; Chelsea, 14.11; Haverhill, 19.86; Gloucester, ——; Newton, ——; Fitchburg, 23.81; Taunton, 41.14; Quincy, ——; Pittsfield. ——; Waltham, 9.72; North Adams, ——; Everett, 16.94; Northampton, ——; Chicopee, ——; Medford, 16.10; Marlborough, ——; Newburyport, 17.57; Woburn, 16.10.

The total death rate for the week was 19.29, as compared with 19.79 and 20.23 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING FEBRUARY 20, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever, ...	116.	Measles.	439.
Diphtheria and croup, ...	162.	Typhoid fever, ...	20.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Feb. 20, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.		8 A. M.	8 P. M.		HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 14,	30.04	28	40	16	54	72	63	W.	W.	6	15		C.	C.			0.00
Monday, 15,	29.93	35	39	31	69	59	64	W.	S. E.	9	4		O.	O.			0.00
Tuesday, 16,	29.72	35	39	31	100	84	92	E.	N. W.	4	8		R.	C.			0.03
Wednes'y, 17,	29.92	36	45	28	69	73	71	W.	S. W.	12	10		O.	C.			0.00
Thursday, 18,	29.82	42	48	37	83	68	76	W.	W.	11	12		C.	C.			0.00
Friday, 19,	30.10	32	37	26	60	52	56	N. W.	N. W.	18	15		C.	C.			0.00
Saturday, 20,	30.33	29	36	22	48	51	50	W.	S. W.	12	10		C.	C.			0.00
Week, - -	29.98		40	17													0.03

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Feb. 27, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 8.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

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JULIAN A. MEAD, M.D., Watertown.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending February 27, 1897.

Deaths reported to the State Board of Health in 24 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Acute Lung Diseases.	Scarlet Fever.	Diphtheria and Croup.	Typhoid Fever.
Boston,	517,732	256	59	21	65	2	12	2
Worcester,	105.050	32	14	4	6	..	..	..
Fall River,	95,919	44	27	2	17	..	1	..
Lowell,	87,193	42	18	1	8	..	..	1
Cambridge,	86,812	19	8	5	..	1	1	..
Lynn,	65,220	22	..	1	..	..	..	..
New Bedford,	62,416	27	12	2	1	..	1	..
Somerville,	57,977	17	1	1	..	..	1	..
Lawrence,	55,510	..	..	..	..	..	..	..
Springfield,	54,790	14	2	..	4	..	..	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	14	6	2	1	..	..	2
Brockton,	35,853	11	3	1	3	..	..	1
Malden,	32,894	11	2	1	3	1	..	..
Chelsea,	32,716	..	..	..	..	..	..	..
Haverhill,	31,405	12	2	..	3	..	..	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	7	1	..	..	..	..	..
Fitchburg,	28,392	9	1	..	2	..	..	..
Taunton,	27,812	16	0	..	1	..	..	..
Quincy,	22,562	..	..	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	2	0	..	..	..	..	..
Everett,	21,575	7	4	1	3	1	..	..
North Adams,	19,135	2	0	..	..	..	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	..	..	..	..	..	..	..
Medford,	15,832	2	1	1	..	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	3	2	..	..	..	..	..
Woburn,	14,449	2	2	..	..	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	3	0	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	2	0	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Scarlet Fever.	Diphtheria and Cronp.	Typhoid Fever.
Total of reporting towns,	1,484,274	576	165	43	117	5	16	6

DEATHS FROM PREVALENT DISEASES IN 24 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Forty-three deaths were reported from the principal infectious diseases; diphtheria and croup, 16; typhoid fever, 6; scarlet fever, 5; measles, 5; cerebro-spinal meniugitis, 4; diarrhœal diseases, 3; whooping-cough, 2; erysipelas, 1; puerperal fever, 1.

No deaths were reported from small-pox and malarial fever.

There were 117 deaths from acute lung diseases; consumption, 56; and still-births, 32.

From measles: Bostou and Worcester, 2 each; Lyuu, 1. From cerebro-spiual meuiugitis: Worcester, 2; Cambridge and Medford, 1 each. From diarrhœal diseases: Fall River, Cambridge and New Bedford, 1 each. From whooping-cough: Boston and Cambridge, 1 each. From erysipelas: Boston, 1. From puerperal fever; Boston, 1.

Deaths under five years of age numbered 165, as compared with 172 for the preceding week.

Deaths from the principal infectious diseases numbered 43, as compared with 49 for the preceding week.

The death rates for the week were: Boston, 25.70; Worcester, 15.84; Fall River, 23.76; Lowell, 25.03; Cambridge, 11.40; Lynn, 17 54; New Bedford, 12.49; Somerville, 15.23; Lawrence, ——; Springfield, 13.28; Holyoke, ——; Salem, 20.18; Brockton, 15.95; Malden, 17.72; Chelsea, ——; Haverhill, 19.86; Gloucester, ——; Newton, 12.55; Fitchburg, 16.48; Taunton, 29.92; Quincy, ——; Pittsfield. ——; Waltham, 4.86; Everett, 15.94; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 6.44; Marlborough, ——; Newburyport, 10.54; Woburn, 7.18.

The total death rate for the week was 20.11, as compared with 19.29 and 19.79 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING FEBRUARY 27, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever, ...	99.	Measles.	543.
Diphtheria and croup, ...	193.	Typhoid fever, ...	17.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL	
Week ending Saturday, Feb. 27, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 21,	29.84	41	52	30	98	63	80	S.	W.	3	8	O.	O.		0.11
Monday, 22,	30.10	36	40	31	57	88	72	N.	E.	7	12	O.	O.		0.00
Tuesday, 23,	29.66	34	40	28	100	74	87	N.	N. W.	10	18	R.	C.		0.70
Wednes'y, 24,	30.12	34	38	30	51	54	52	N. W.	W.	20	10	C.	C.		0.00
Thursday, 25,	30.09	34	40	28	76	73	74	S. W.	S. W	10	11	O.	O.		0.00
Friday, 26,	30.18	29	34	24	50	50	50	N. W.	S. W.	12	7	C.	F.		0.00
Saturday, 27,	30.42	22	30	14	46	62	54	N. W.	W.	8	9	C.	C.		0.00
Week, - -	30.06		39	26			67								0.81

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, March 6, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 9.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending March 6, 1897.

Deaths reported to the State Board of Health in 28 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued. to contain the returns from all reporting towns for the month.

We shall estcem it a great favor if all reporting towns will send us their returns wcekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this requcst.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	517,732	250	61	21	63	..	3	13
Worcester,	105,050	31	12	6	5	1	..	1
Fall River,	95,919	49	27	7	11	4	1	2
Lowell,	87,193	38	11	1	8	..	1	..
Cambridge,	86,812	26	9	3	2	..	1	1
Lynn,	65,220	17	..	..	7	..	..	..
New Bedford,	62,416	32	17	5	7	4	..	1
Somerville,	57,977	21	7	4	3	1	..	..
Lawrence,	55,510	22	11	1	2	1	..	..
Springfield,	54,790	26	6	1	4	..	..	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	14	7	1	2	..	..	1
Brockton,	35,853	8	3	1	1	..	..	1
Malden,	32,894	6	1	..	3	..	..	..
Chelsea,	32,716	13	1	..	3	..	..	..
Haverhill,	31,405	11	4	2	..	..	1	1
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	4	0	..	3	..	..	..
Fitchburg,	28,392	2	1	..	1	..	..	..
Taunton,	27,812	11	1	..	1	..	..	..
Quincy,	22,562	7	3	1	2	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	7	0	2	1	..	..	..
Everett,	21,575	4	1	..	..	..	..	..
North Adams,	19,135	15	3	1	2	..	..	1
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	6	1	..	1	..	..	..
Medford,	15,832	1	0	..	..	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	1	0	..	..	..	..	..
Woburn,	14,449	4	0	..	1	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	7	4	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	2	1	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	~~Scarlet Fever.~~	Diphtheria and Croup.	Typhoid Fever.
Total of reporting towns,	1,611,226	635	192	57	133	11	7	22

DEATHS FROM PREVALENT DISEASES IN 28 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Forty-seven deaths were reported from the principal infectious diseases; diphtheria and croup, 22; diarrhœal diseases, 11; typhoid fever, 7; cerebro-spinal meningitis, 8; scarlet fever, 4; whooping-cough, 3; measles, 2.

No deaths were reported from small-pox, malarial fever and puerperal fever.

There were 133 deaths from acute lung diseases: consumption, 70; and still-births, 33.

From cerebro-spinal meningitis: Worcester, 3; Somerville, 2; Quincy and Waltham, 1 each. From scarlet fever: Boston, 3; Waltham, 1. From whooping-cough: Boston, Somerville and Springfield, 1 each. From measles: Boston and Worcester, 1 each

Deaths under five years of age numbered 192, as compared with 165 for the preceding week.

Deaths from the principal infectious diseases numbered 57, as compared with 43 for the preceding week.

The death rates for the week were: Boston, 25.10; Worcester, 15.34; Fall River, 26.46; Lowell, 22.64; Cambridge, 15.60; Lynn, 13 55; New Bedford, 26.65; Somerville, 18.81; Lawrence, 21.39; Springfield, 24.67; Holyoke, ——; Salem, 20.18; Brockton, 11.60; Maldeu, 9.66; Chelsea, 13.10; Haverhill, 18.20; Gloucester, ——; Newton, 7.17; Fitchburg, 3.86; Taunton, 20.57; Quincy, 16.13; Pittsfield. ——; Waltham, 17.01; Everett, 9.68; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 3.22; Marlborough, ——; Newburyport, 3.51; Woburn, 15.36.

The total death rate for the week was 20.49, as compared with 20.11 and 19.29 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING MARCH 6, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever, ...	131.	Measles, ...	461.
Diphtheria and croup, ...	129.	Typhoid fever, ...	16.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, March 6, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
February.															
Sunday, 28,	30.53	21	30	12	61	58	60	N. W.	N. W.	11	17	C.	C.		0.00
March.															
Monday, 1,	30.70	22	36	7	70	94	82	N.	S.	9	13	C.	O.		0.02
Tuesday, 2,	30.24	42	50	33	74	87	80	W.	N. E.	18	9	O.	O.		0.01
Wednes'y, 3,	29.86	44	54	33	100	90	95	W.	S. W.	6	15	G.	O.		0.14
Thursday, 4,	30.74	34	39	30	60	42	51	N. W.	N. W.	21	7	C.	C.		0.00
Friday, 5,	30.19	38	50	26	77	92	74	S.	S.	7	22	O.	R.		0.20
Saturday, 6,	30.20	37	50	24	77	38	58	N. W.	N.	16	12	O.	F.		0.05
Week, - -	30.35		44	23			71								0.42

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

MONTHLY MORTALITY

In 7 smaller towns of Massachusetts, as reported to the State Board of Health for the month of February.

TOWNS.	POPULATION.	Reported Deaths in Each.	Deaths under five years of age.	DEATHS FROM					
				Infectious Diseases.	Acute Lung Diseases.	Diphtheria and Croup.	Scarlet Fever.	Typhoid Fever.	
Amesbury,	9,986	6	1	1	1	1	..	..	
Palmer,	6,866	7	2	..	3	..	..	..	
Orange,	5,361	5	1	..	..	..	..	..	
Hudson,	5,308	6	2	..	1	..	..	..	
Easthampton,	4,790	3	1	..	..	..	..	..	
Merrimac,	2,301	7	1	1	1	..	1	..	
Norton,	1,614	4	0	..	1	..	..	..	
Total of reporting towns,	37,226	38	8	2	7	1	1	0	

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, March 13, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 10.

Entered at the post-office at Boston as second-class matter.

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It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending March 13, 1897.

Deaths reported to the State Board of Health in 26 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	517,732	267	73	21	65	3	3	9
Worcester,	105,050	33	13	5	7	1	..	3
Fall River,	95,919	55	29	3	23	2	..	..
Lowell,	87,193	42	14	2	9	..	..	..
Cambridge,	86,812	24	5	2	4	1	..	1
Lynn,	65,220	22	..	1	4	..	1	..
New Bedford,	62,416	42	15	6	8	2	1	3
Somerville,	57,977	33	10	4	14	1	..	1
Lawrence,	55,510	18	10	..	3	..	..	..
Springfield,	54,790	18	9	2	5	..	..	1
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	11	3	1	..	..	..	..
Brockton,	35,853	5	1	2	1	..	1	..
Malden,	32,894	15	5	2	4	..	..	2
Chelsea,	32,716	..	..	..	..	..	..	..
Haverhill,	31,406	8	3	..	..	..	..	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	12	2	..	3	..	..	..
Fitchburg,	28,392	10	3	1	3	..	..	..
Taunton,	27,812	16	3	1	4	..	..	..
Quincy,	22,562	..	..	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	12	3	1	..	..	..	..
Everett,	21,575	9	1	3	1	..	..	..
North Adams,	19,135	9	3	..	2	..	..	3
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	3	0	..	..	..	..	..
Medford,	15,832	4	2	1	..	1	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	11	2	..	..	..	..	..
Woburn,	14,449	5	1	..	..	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	2	0	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	2	0	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,555,949	688	210	58	160	11	6	23

DEATHS FROM PREVALENT DISEASES IN 26 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Fifty-eight deaths were reported from the principal infectious diseases; diphtheria and croup, 23; diarrhœal diseases, 11; typhoid fever, 6; cerebro-spinal meniugitis, 5; scarlet fever, 4; whooping-cough, 4; measles, 3; erysipelas, 1.

No deaths were reported from small-pox, malarial fever and puerperal fever.

There were 160 deaths from acute lung diseases; consumption, 78; and still-births, 41.

From cerebro-spinal meningitis: Somerville, 2; Brockton, Fitchburg and Waltham, 1 each. From scarlet fever: Boston, 4. From whooping-cough: Boston, Fall River, Lowell and Springfield, 1 each. From measles: Worcester, Lowell and Taunton, 1 each. From erysipelas: Boston, 1

Deaths under five years of age numbered 210, as compared with 192 for the preceding week.

Deaths from the principal infectious diseases numbered 58, as compared with 57 for the preceding week.

The death rates for the week were: Boston, 26.80; Worcester, 16.33; Fall River, 29.70; Lowell, 25.03; Cambridge, 14.40; Lynn, 17 54; New Bedford, 34.98; Somerville, 29.56; Lawrence, 17.50; Springfield, 17.08; Holyoke, ——; Salem, 15.86; Brockton, 7.25; Malden, 24.16; Chelsea, ——; Haverhill, 13.24; Gloucester, ——; Newton, 21.51; Fitchburg, 18.32; Taunton, 29.92; Quincy, ——; Pittsfield, ——; Waltham, 29.16; Everett, 21.78; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 12.88; Marlborough, ——; Newburyport, ——; Woburn, 16.10.

The total death rate for the week was 29.98, as compared with 20.49 and 20.11 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING MARCH 13, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever, ...	129.	Measles.	496.
Diphtheria and croup, ...	146.	Typhoid fever, ...	22.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.				STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, March 13, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.			8 A. M.	8 P. M.		HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 7,	30.73	21	26	16	53	62	66	N. E.	N. E.	6	7			C.	C.			0.00
Monday, 8,	30.56	28	36	21	62	80	71	W.	S.	8	8			O.	O.			0.00
Tuesday, 9,	30.20	40	46	34	82	93	88	W.	S. E.	7	6			O.	T.			0.01
Wednes'y, 10,	29.72	47	56	38	93	75	84	S.	N. W.	10	15			C.	C.			0.03
Thursday, 11,	30.01	45	55	35	57	39	48	W.	W.	17	12			C.	C.			0.00
Friday, 12,	29.76	44	53	36	74	92	83	S.	W.	8	9			O.	O.			0.08
Saturday, 13,	30.06	34	43	26	39	62	50	N. W.	N. E.	26	7			C.	C.			0.36
Week, - -	30.15		45	29			70											0.48

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of February.

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk,	268	236	504	Maple Syrup,	8	2	10
Butter,	27	1	28	Canned Goods,	..	..	..
Cheese,	16	0	16	Honey,	15	3	18
Lard,	..	..	..	Tea,	5	0	5
Olive Oil,	3	1	4	Coffee,	10	0	10
Vinegar,	2	4	6	Cocoa,	1	2	3
Spices,	95	15	110	Confectionery,	7	0	7
Cream of Tartar,	22	0	22	Other articles of Food and Drinks,	8	1	9
Molasses,	5	0	5	Drugs,	20	6	26
Syrups,	..	..	..				
Maple Sugar,	6	1	7				
				Totals,	518	272	790

Percentage of adulteration, 34.4. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour, and the various other cereal products, are very rarely adulterated, and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration.

The ratio of samples of milk found to be below the standard was 46.8 per cent., as compared with 39.0 per cent. for the preceding month.

Two complaints were entered in the courts during the month for violation of the laws relative to the inspection of Food and Drugs. Both of these were for violation of the Statutes relative to the sale of Milk.

The samples of drugs found to be adulterated were Chloral, Compound Spirits of Ether, Oil of Lemon, Red Wine and Whiskey.

Cities and towns from which samples of food were collected were: Boston, Worcester, Cambridge, Somerville, Lawrence, Salem, Brockton, Malden, Chelsea, Newton, Taunton, Quincy, Waltham, Woburn, Amherst, Beverly, Brookline, Canton, Clinton, Dedham, Hyde Park, Natick, Wellesley, Westfield, Westborough and Winchester.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, March 20, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 11.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

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SAMUEL W. ABBOTT, M.D., *Secretary*.

MORTALITY OF MASSACHUSETTS

For the Week ending March 20, 1897.

Deaths reported to the State Board of Health in 25 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issned, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reportiug towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from Principal Infectious Diseases.	Deaths from Acute Lung Diseases.	Deaths from Typhoid Fever.	Deaths from Diphtheria and Croup.	Deaths from Scarlet Fever.
Boston,	517,732	248	68	18	50	4	7	4
Worcester,	105,050	35	11	1	5	..	..	..
Fall River,	95,919	37	17	6	11	1	1	..
Lowell,	87,193	34	14	2	6	1	1	..
Cambridge,	86,812	25	6	2	5	..	..	1
Lynn,	65,220	22	..	1	4	1	..	..
New Bedford,	62,416	..	..	..	..	..	..	..
Somerville,	57,977	17	3	2	5	..	..	1
Lawrence,	55,510	17	3	..	6	..	..	..
Springfield,	54,790	22	4	..	3	..	..	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	15	4	1	3	1	..	..
Brockton,	35,853	..	..	..	..	..	..	..
Malden,	32,894	8	2	..	4	..	..	..
Chelsea,	32,716	..	..	..	..	..	..	..
Haverhill,	31,406	12	9	2	..	..	1	1
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	9	3	..	2	..	..	..
Fitchburg,	28,392	10	3	..	1	..	..	..
Taunton,	27,812	7	2	..	1	..	..	..
Quincy,	22,562	7	3	1	2	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	10	2	..	2	..	..	..
Everett,	21,575	12	5	1	4	..	..	..
North Adams,	19,135	7	5	1	1	..	1	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	..	..	..	..	..	..	..
Medford,	15,832	9	2	..	2	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	7	3	1	1	..	..	..
Woburn,	14,449	7	2	1	2	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	6	0	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	1	0	..	1	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	2	0	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Typhoid Fever.	Diphtheria and Croup.	Scarlet Fever.
Total of reporting towns,	1,475,904	586	171	40	121	8	11	7

DEATHS FROM PREVALENT DISEASES IN 25 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Forty deaths were reported from the principal infectious diseases; diphtheria and croup, 11; typhoid fever, 8; scarlet fever, 7; measles, 5; diarrhœal diseases, 5; cerebro-spiual meniugitis, 3; erysipelas, 1.

No deaths were reported from small-pox, malarial fever, whooping-cough and puerperal fever.

There were 121 deaths from acute lung diseases; consumption, 53; and still-births, 32.

From measles: Boston, Fall River, Quincy, Everett and Woburn, 1 each. From diarrhœal diseases: Worcester, 3; Cambridge and Newburyport, 1 each. From cerebro-spiual meningitis: Boston, Worcester and Somerville, 1 each. From erysipelas: Boston, 1.

Deaths under five years of age numbered 171, as compared with 210 for the preceding week.

Deaths from the principal infectious diseases numbered 40, as compared with 58 for the preceding week.

The death rates for the week were: Boston, 24.91; Worcester, 17.32; Fall River, 20.06; Lowell, 19.29; Cambridge, 14.97; Lynn, 17.45; New Bedford, ——; Somerville, 15.25; Lawrence, 15.92; Springfield, 21.06; Holyoke, ——; Salem, 21.63; Brockton, ——; Malden, 12.64; Chelsea, ——; Haverhill, 19.86; Gloucester, ——; Newton, 16.14; Fitchburg, 18.31; Taunton, 13.15; Quincy, 11.25; Pittsfield. ——; Waltham, 23.84; Everett, 27.35; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 29.56; Marlborough, ——; Newburyport, 24.60; Woburn, 25.19.

The total death rate for the week was 20.66, as compared with 22.99 and 20.49 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING MARCH 20, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever, ...	146.	Measles.	613.
Diphtheria and croup, ...	151.	Typhoid fever, ...	12.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, March 20, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 14,	30.07	28	34	21	56	90	73	S. E.	N. W.	15	10	O.	O.		0.36
Monday, 15,	30.34	32	37	27	47	47	47	W	W.	17	15	C.	C.		0.00
Tuesday, 16,	30.50	20	27	14	44	41	46	N. W.	N.	20	12	C.	C.		0.00
Wednes'y, 17,	30.41	26	38	13	58	37	40	N. W.	N. W.	18	9	C.	C.		0.00
Thursday, 18,	30.06	34	41	27	88	61	60	N. E.	S. W.	3	10	F.	O.		0.00
Friday, 19,	29.80	42	48	37	96	100	94	S. W.	E.	5	7	F.	O.		0.00
Saturday, 20,	29.71	36	38	34	93	98	97	E.	N. E.	16	12	R.	O.		0.69
Week, - -	30.11		33	25			65								1.05

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, March 27, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 12.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deatbs made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in eacb month it also contains the returns of deatbs from such other towns as report to the Board.

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MORTALITY OF MASSACHUSETTS

For the Week ending March 27, 1897.

Deaths reported to the State Board of Health in 25 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from Principal Infectious Diseases.	Deaths from Acute Lung Diseases.	Deaths from Diphtheria and Croup.	Deaths from Diarrhœal Diseases.	Deaths from Scarlet Fever.
Boston,	517,732	243	69	35	55	18	3	5
Worcester,	105,050	27	13	5	4	2	..	2
Fall River,	95,919	..	..	..	..	..	..	..
Lowell,	87,193	52	21	..	9	..	..	..
Cambridge,	86,812	26	6	..	4	..	..	..
Lynn,	65,220	23	6	2	5	1	..	..
New Bedford,	62,416	..	..	..	..	..	..	..
Somerville,	57,977	22	5	4	5	..	1	1
Lawrence,	55,510	23	5	4	4	1	2	..
Springfield,	54,790	27	7	..	9	..	..	..
Holyoke,	42,361	..	..	..	..	..	..	..
Salem,	36,062	14	5	..	2	..	..	..
Brockton,	35,853	15	8	2	..	1	1	..
Malden,	32,894	11	4	..	2	..	..	..
Chelsea,	32,716	..	..	..	..	..	..	..
Haverhill,	31,406	15	7	..	5	..	..	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	8	4	1	1	1	..	..
Fitchburg,	28,392	8	2	..	..	..	..	..
Taunton,	27,812	10	3	1	..	..	..	..
Quincy,	22,562	6	1	2	1	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	8	2	..	1	..	..	..
Everett,	21,575	8	2	3	2	1	..	..
North Adams,	19,135	9	3	..	2	..	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	..	..	..	..	..	..	..
Medford,	15,832	1	0	..	1	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	1	0	1	..	..	..	..
Woburn,	14,449	2	2	..	..	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	6	0	1	1	..	1	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	5	0	1	1	1	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	3	1	..	2	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diphtheria and Croup.	Diarrhœal Diseases.	Scarlet Fever.
Total of reporting towns,	1,415,838	573	176	62	116	26	8	8

DEATHS FROM PREVALENT DISEASES IN 25 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Sixty-two deaths were reported from the principal infectious diseases; diphtheria and croup, 26; cerebro-spinal meningitis, 10; diarrhœal diseases, 8; scarlet fever, 8; erysipelas, 2; measles, 1; whooping-cough, 1.

No deaths were reported from small-pox, puerperal fever and malarial fever.

There were 116 deaths from acute lung diseases; consumption, 54; and still-births, 40.

From cerebro-spinal meningitis: Boston, 4; Somerville, 2; Worcester, Lynn, Quincy and Everett, 1 each. From erysipelas: Boston, 2 From measles: Everett, 1. From whooping-cough, Taunton, 1.

Deaths under five years of age numbered 176, as compared with 171 for the preceding week.

Deaths from the principal infectious diseases numbered 62, as compared with 40 for the preceding week.

The death rates for the week were: Boston, 24.39; Worcester, 13.36; Fall River, ——; Lowell, 30.99; Cambridge, 15.60; Lynn, 18 33; New Bedford, ——; Somerville, 19.71; Lawrence, 22.37; Springfield, 25.62; Holyoke, ——; Salem, 20.18; Brockton, 21.75; Malden, 17.72; Chelsea, ——; Haverhill, 24.82; Gloucester, ——; Newton, 14.34; Fitchburg, 14.65; Taunton, 18.70; Quincy, 13.83; Pittsfield. ——; Waltham, 19.44; Everett, 19.46; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 3.22; Marlborough, ——; Newburyport, 3.51; Woburn, 7.18.

The total death rate for the week was 21.04, as compared with 20.66 and 22.99 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING MARCH 27, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

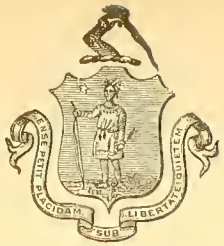
Scarlet-fever, ...	161.	Measles.	445.
Diphtheria and croup, ...	133.	Typhoid fever, ...	22.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, March 27, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.		8 A. M.	8 P. M.		HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 21,	29.86	43	52	34	98	98	98	N. W.	W.	5	8		O.	C.			0.05
Monday, 22,	29.96	46	54	37	69	61	65	W.	S. W.	6	7		O.	O.			0.01
Tuesday, 23,	29.80	42	48	36	74	82	78	N.	S. E.	6	9		F.	O.			0.00
Wednes'y, 24,	29.30	37	39	35	100	98	99	E.	W.	26	14		R.	C.			1.14
Thursday, 25,	29.25	38	43	34	73	90	82	W.	N. W.	15	23		C.	C.			0.00
Friday, 26,	29.57	38	44	32	69	62	66	N. W.	N. W.	11	9		F.	F.			0.00
Saturday, 27,	29.81	39	44	34	54	50	52	N. W.	N. W.	9	9		C.	C.			0.00
Week, - -	29.63		46	35			77										1.20

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.



Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, April 3, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 13.

Entered at the post-office at Boston as second-class matter.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending April 3, 1897.

Deaths reported to the State Board of Health in 26 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Acute Lung Diseases.	Typhoid Fever.	Diphtheria and Croup.	Cerebro-spinal meningitis.
Boston,	517,732	214	68	21	29	2	4	3
Worcester,	105,050	31	10	4	3	..	2	1
Fall River,	95,919	47	1	3	17	1	1	..
Lowell,	87,193	29	14	2	9	2	..	..
Cambridge,	86,812	25	12	2	4	..	2	..
Lynn,	65,220	19	4	1	1	..	..	1
New Bedford,	62,416	28	11	1	10	..	1	..
Somerville,	57,977	14	2	5	2	..	4	1
Lawrence,	55,510	27	10	2	8	1	1	..
Springfield,	54,790	21	5	4	5	1	3	..
Holyoke,	42,361	..	..	..	..	..	..	..
Salem,	36,062	13	4	1	3	..	1	..
Brockton,	35,853	8	3	2	1	..	..	1
Malden,	32,894	9	1	..	1	..	..	..
Chelsea,	32,716	12	4	2	3	..	..	2
Haverhill,	31,406	11	..	..	3	..	..	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	9	2	..	2	..	..	..
Fitchburg,	28,392	6	0	1	2	..	1	..
Taunton,	27,812	7	0	1	2	1	..	..
Quincy,	22,562	..	..	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	8	3	..	2	..	..	..
Everett,	21,575	6	3	..	2	..	..	..
North Adams,	19,135	1	1	..	..	..	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	3	0	..	..	..	..	..
Medford,	15,832	4	0	..	..	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	2	1	..	..	..	..	..
Woburn,	14,449	6	4	..	2	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	..	..	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	4	1	..	1	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Typhoid Fever.	Diphtheria and Croup.	Cerebro-spinal meningitis.
Total of reporting towns,	1,577,167	564	154	52	112	8	20	9

DEATHS FROM PREVALENT DISEASES IN 26 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Fifty-two deaths were reported from the principal infectious diseases; diphtheria and croup, 20; cerebro-spinal meningitis, 9; typhoid fever, 8; scarlet fever, 5; erysipelas, 4; measles, whooping-cough and diarrhœal diseases, each 2.

No deaths were reported from small-pox, puerperal fever and malarial fever.

There were 112 deaths from acute lung diseases; consumption, 64; and still-births, 35.

From scarlet fever: Boston, 4; Brockton, 1. From erysipelas: Boston, 3; Worcester, 1. From measles: Boston, 2 From whooping-cough: Boston, 2. From diarrhœal diseases: Boston and Fall River, 1 each.

Deaths under five years of age numbered 154, as compared with 176 for the preceding week.

Deaths from the principal infectious diseases numbered 52, as compared with 62 for the preceding week.

The death rates for the week were: Boston, 21.88; Worcester, 15.45; Fall River, 25.38; Lowell, 17.28; Cambridge, 15.00; Lynn. 15 55; New Bedford, 23.32; Somerville, 12.54; Lawrence, 26.26; Springfield, 19.92; Holyoke, —; Salem, 18.74; Brockton, 11.60; Malden, 14.49; Chelsea, 12 09; Haverhill, 18.20; Gloucester, —; Newton, 16.13; Fitchburg, 10.99; Taunton, 13.07; Quincy, —; Pittsfield. —; Waltham, 19.44; Everett, 14.52; North Adams, —; Northampton, —; Chicopee, —; Medford, 12.88; Marlborough, —; Newburyport, 7.02; Woburn, 21.54.

The total death rate for the week was 18.59, as compared with 21.04 and 20.66 for the two previous weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING APRIL 3, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever,	159.	Measles,	460.
Diphtheria and croup,	155.	Typhoid fever,	12.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, April 3, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
March.															
Sunday, 28,	30.04	38	44	33	70	45	58	N.	N. W.	8	10	O.	C.		T.
Monday, 29,	30.24	42	51	33	57	29	43	N. W.	N. W.	10	8	C.	C.		0.00
Tuesday, 30,	30.22	46	57	35	45	34	40	N. W.	N.	7	11	C.	C.		0.00
Wednes'y, 31,	30.28	40	47	34	45	45	45	N.	N.	10	2	C.	C.		0.00
April.															
Thursday, 1,	30.36	40	48	31	40	34	37	N.	W.	15	6	C.	C.		0.00
Friday, 2,	30.09	50	62	39	34	33	34	N. W.	N.	13	14	C.	C.		0.00
Saturday, 3,	30.44	36	40	31	59	52	54	N. E.	S.	11	8	O.	C.		0.00
Week, - -	30.24		49	33			44								

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

MONTHLY MORTALITY

In 6 smaller towns of Massachusetts, as reported to the State Board of Health for the month of March.

TOWNS.	Population. 1895.	Reported Deaths in Each.	Deaths under five years of age.	Deaths from				
				Infectious Diseases.	Acute Lung Diseases.	Consumption.	Typhoid Fever.	Diphtheria and Croup.
Amesbury,	9,986	11	1	2	1	1	..	2
Revere,	7,423	6	0	..	1	1	..	..
Palmer,	6,858	13	2	..	1	..	..	..
Hudson,	5,308	10	1	2	1	2	1	..
Easthampton,	4,790	6	2	1	1	..	..	..
Merrimac.	2,301	1	0	..	..	..	..	..
Total of reporting towns,	36,666	47	6	5	5	4	1	2

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, April 10, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 14.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

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GERARD C. TOBEY, Esq., Wareham.
FRANK W. DRAPER, M.D., Boston.
HIRAM F. MILLS, C.E., Lawrence.
JAMES W. HULL, Pittsfield.
CHARLES H. PORTER, Quincy.
JULIAN A. MEAD, M.D., Watertown.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending April 10, 1897.

Deaths reported to the State Board of Health in 27 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Acute Lung Diseases.	Typhoid Fever.	Diphtheria and Croup.	Cerebro-spinal meningitis.
Boston,	517,732	260	99	29	45	4	9	6
Worcester,	105,050	27	10	2	2	..	2	..
Fall River,	95,919	32	17	5	13	1	2	..
Lowell,	87,193	31	8	2	3	..	2	..
Cambridge,	86,812	31	11	2	8	..	1	..
Lynn,	65,220	22	..	..	1	..	..	..
New Bedford,	62,416	22	11	2	5	..	1	..
Somerville,	57,977	18	5	5	3	..	1	3
Lawrence,	55,510	15	8	3	1	..	2	1
Springfield,	54,790	23	4	..	5	..	..	..
Holyoke,	42,361	..	..	..	..	..	..	..
Salem,	36,062	14	3	1	1	..	1	..
Brockton,	35,853	..	..	..	..	..	..	..
Malden,	32,894	12	1	..	2	..	..	..
Chelsea,	32,716	13	4	..	2	..	..	..
Haverhill,	31,406	17	5	3	2	..	2	1
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	11	3	..	1	..	..	..
Fitchburg,	28,392	8	0	1	1	..	1	..
Taunton,	27,812	17	6	..	1	..	..	..
Quincy,	22,562	10	3	..	1	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	3	0	..	2	..	..	..
Everett,	21,575	9	3	2	..	..	..	..
North Adams,	19,135	7	1	..	2	..	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	..	..	..	..	..	..	..
Medford,	15,832	3	1	..	2	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	6	3	..	2	..	..	..
Woburn,	14,449	8	2	..	2	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	5	0	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	4	0	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	4	1	..	1	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Typhoid Fever.	Diphtheria and Croup.	Cerebro-spinal meningitis.
Total of reporting towns,	1,555,204	632	209	57	110	5	24	11

DEATHS FROM PREVALENT DISEASES IN 27 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Fifty-five deaths were reported from the prineipal infeetious diseases; diphtheria and croup, 24; eerebro-spinal meningitis, 11; scarlet fever, 6; typhoid fever, 5; diarrhœal diseases, 5; measles, 3; whooping-eough, 2.

No deaths were reported from small-pox, puerperal fever, erysipelas and malarial fever.

There were 110 deaths from acute lung diseases; eonsumption, 66; and still-births, 32.

From searlet fever: Boston, 2. From diarrhœal diseases: Fall River, 2; Cambridge, Somerville and Everett, 1 eaeh. From measles: Boston, 2; New Bedford, 1. From whooping-cough: Boston and Everett, 1 eaeh.

Deaths under five years of age numbered 209, as eompared with 154 for the preceding week.

Deaths from the prineipal infeetious diseases uumbered 57, as eompared with 52 for the preceding week.

The death rates for the week were: Boston, 26.10; Worcester, 13.36; Fall River, 17.28; Lowell, 18.47; Cambridge, 18.60; Lynn, 17 54; New Bedford, 18.26; Somerville, 16.02; Lawrenee, 14.55; Springfield, 21.62; Holyoke, ——; Salem, 20.19; Broekton, ——; Malden, 19.33; Chelsea, 13 10; Haverhill, 28.13; Gloucester, ——; Newton, 19.72; Fitehburg, 14.65; Taunton, 31.79; Quincy, 23.05; Pittsfield. ——; Waltham, 7.29; Everett, 21.78; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 9.66; Marlborough, ——; Newburyport, 21.08; Woburn, 36.72.

The total death rate for the week was 21.13, as compared with 18.59 and 21.04 for the two previous weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING APRIL 10, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Searlet-fever, ...	158.	Measles.	411.
Diphtheria and croup, ...	131.	Typhoid fever, ...	18.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.		DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, April 10, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 4,	30.31	44	57	31	63	55	59	W.	S. W.	8	11	C.	C.		0.00
Monday, 5,	29.78	49	59	39	91	96	94	S. W.	S. W.	14	8	O.	O.		0.21
Tuesday, 6,	29.72	58	58	50	92	82	87	W.	W.	8	8	F.	R.		0.02
Wednes'y, 7,	30.00	48	48	40	70	100	85	N. W.	E.	12	12	C.	R.		0.22
Thursday, 8,	30.12	41	41	38	74	88	81	N.	S. E.	8	8	O.	O.		0.42
Friday, 9,	29.76	39	39	36	100	100	100	E.	N. E.	15	15	R.	R.		1.61
Saturday, 10,	29.87	42	42	36	98	83	90	N. E.	W.	5	4	O.	C.		0.14
Week, - -	30.37		49	39			85								2.62

* O., Clondy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of March.

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk,	283	265	548	Maple Syrup,	2	1	3
Butter,	27	0	27	Canned Goods,	1	0	1
Cheese,	8	0	8	Honey,	..	..	..
Lard,	..	..	..	Tea,	8	1	9
Olive Oil,	5	0	5	Coffee,	10	3	13
Vinegar,	6	8	14	Cocoa,	10	3	13
Spices,	92	17	109	Confectionery,	15	0	15
Cream of Tartar,	26	1	27	Other articles of Food and Drinks,	14	2	16
Molasses,	16	1	17	Drugs,	32	13	45
Syrups,	..	..	..				
Maple Sugar,	10	4	14				
				Totals,	565	319	884

Percentage of adulteration, 36.1. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour, and the various other cereal products, are very rarely adulterated, and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration.

The ratio of samples of milk found to be below the standard was 48.3 per cent., as compared with 46.8 per cent. for the preceding month.

Five complaints were entered in the courts during the month for violation of the laws relative to the inspection of Food and Drugs. All of these were for violation of the Statutes relative to the sale of Milk.

The samples of drugs found to be adulterated were Gin, Red Wine, Tincture of Iodine, Tincture of Opium and Whiskey.

Cities and towns from which samples of food were collected were: Boston, Worcester, Lowell, Cambridge, Somerville, Holyoke, Chelsea, Malden, Taunton, Fitchburg, Waltham, North Adams, Everett, Marlborough, Woburn, Brookline, Dedham, Hyde Park, Revere, Stoneham, Stoughton, Southborough, Westborough and Winthrop.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

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An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 15.

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Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

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MORTALITY OF MASSACHUSETTS

For the Week ending April 17, 1897.

Deaths reported to the State Board of Health in 25 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diphtheria and Croup.	Cerebro-spinal meningitis.	Scarlet Fever.
Boston,	517,732	250	75	37	53	14	8	8
Worcester,	105,050	39	13	3	6	2	1	..
Fall River,	95,919	49	16	4	17	..	..	..
Lowell,	87,193	30	7	..	6	..	..	..
Cambridge,	86,812	31	10	4	6	3	..	..
Lynn,	65,220	19	3	1	..	..	..	..
New Bedford,	62,416	27	13	3	6	2	..	..
Somerville,	57,977	10	2	3	1	2	1	..
Lawrence,	55,510	20	13	..	6	..	..	..
Springfield,	54,790	24	4	3	3	..	..	1
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	7	4	2	..	2	..	..
Brockton,	35,853	..	..	..	..	..	..	..
Malden,	32,894	5	2	..	1	..	..	..
Chelsea,	32,716	..	..	..	..	..	..	..
Haverhill,	31,406	14	..	2	1	2	..	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	11	..	..	2	..	..	..
Fitchburg,	28,392	8	0	..	3	..	..	..
Taunton,	27,812	11	5	1	2	..	..	1
Quincy,	22,562	..	..	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	6	0	..	..	..	..	..
Everett,	21,575	8	2	4	..	3	1	..
North Adams,	19,135	4	2	..	1	..	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	..	..	..	..	..	..	..
Medford,	15,832	8	3	..	1	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	5	0	..	..	..	..	..
Woburn,	14,449	7	4	4	1	..	3	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	2	0	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	4	2	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	4	0	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diphtheria and Croup.	Cerebro-spinal meningitis.	Scarlet Fever.
Total of reporting towns,	1,515,758	603	180	71	116	30	14	10

DEATHS FROM PREVALENT DISEASES IN 25 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Seventy-one deaths were reported from the principal infectious diseases; diphtheria and croup, 30; cerebro-spinal meningitis, 14; scarlet fever, 10; typhoid fever, 5; diarrhœal diseases, 4; whooping-cough, 2; erysipelas, 2; puerperal fever, 1.

No deaths were reported from small-pox and malarial fever.

There were 116 deaths from acute lung diseases; consumption, 61; and still-births, 43.

From typhoid fever: Boston, 3; Fall River and Springfield, 1 each. From diarrhœal diseases: Fall River, 2; Boston and Cambridge, 1 each. From measles: Lynn, New Bedford and Springfield, 1 each. From erysipelas: Boston, 2. From whooping-cough: Fall River and Woburn, 1 each. From puerperal fever: Boston, 1.

Deaths under five years of age numbered 180, as compared with 209 for the preceding week.

Deaths from the principal infectious diseases numbered 71, as compared with 57 for the preceding week.

The death rates for the week were: Boston, 25.10; Worcester, 19.30; Fall River, 26.46; Lowell, 17.88; Cambridge, 18.60; Lynn, 15 14; New Bedford, 22.49; Somerville, 8.96; Lawrence, 19.45; Springfield, 22.77; Holyoke, ——; Salem, 10.09; Brockton, ——; Malden, 8.05; Chelsea, ——; Haverhill, 23.17; Gloucester, ——; Newton, 19.72; Fitchburg, 14.65; Taunton, 20.57; Quincy, ——; Pittsfield, ——; Waltham, 14.58; Everett, 19.36; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 25.76; Marlborough, ——; Newburyport, 17.57; Woburn, 25.13.

The total death rate for the week was 20.68, as compared with 21.13 and 18.59 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING APRIL 17, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever,	155.	Measles.	465.
Diphtheria and croup,	157.	Typhoid fever,	17.
Small-pox,	2.		

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, April 17, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 11,	30.06	39	44	31	100	68	84	N.	N. W.	8	8	S.	C.		0.05
Monday, 12,	30.48	46	37	35	61	53	57	N. W.	E.	5	3	C.	C.		0.00
Tuesday, 13,	30.50	48	58	38	49	62	56	S. W.	S.	3	14	C.	F.		0.00
Wednes'y, 14,	30.02	58	69	46	78	69	64	S. W.	S. W.	12	7	O.	O.		T.
Thursday, 15,	29.82	52	61	43	100	94	97	N.	S. W.	9	20	R.	O.		0.30
Friday, 16,	29.88	54	66	41	66	52	59	W.	S. W.	12	14	C.	C.		0.00
Saturday, 17,	29.80	50	55	44	67	69	68	S. E.	N. W.	7	12	O.	C.		0.12
Week, - -	30.08	56	40				69								0.47

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, April 24, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 16.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending April 24, 1897.

Deaths reported to the State Board of Health in 25 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Diphtheria and Croup.	Cerebro-spinal meningitis.
Boston,	517,732	248	86	31	45	..	9	14
Worcester,	105,050	31	10	3	2	..	..	1
Fall River,	95,919	39	19	3	11	3	..	..
Lowell,	87,193	21	8	3	2	..	..	..
Cambridge,	86,812	35	11	5	1	2	..	1
Lynn,	65,220	16	2	2	4	1	..	..
New Bedford,	62,416	16	7	1	2	1	..	..
Somerville,	57,977	20	8	4	4	..	1	1
Lawrence,	55,510	15	3	2	1	1	..	1
Springfield,	54,790	15	5	..	4	..	..	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	12	2	2	1	..	1	..
Brockton,	35,853	..	..	..	..	..	..	..
Malden,	32,894	12	5	..	5	..	..	..
Chelsea,	32,716	10	2	..	3	..	..	..
Haverhill,	31,406	14	5	1	4	..	..	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	10	2	1	3	..	..	1
Fitchburg,	28,392	6	1	..	1	..	..	..
Taunton,	27,812	12	6	2	3	..	..	1
Quincy,	22,562	..	..	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	5	2	1	1	..	1	..
Everett,	21,575	9	3	2	1	..	1	..
North Adams,	19,135	4	0	..	..	..	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	..	..	..	..	..	..	..
Medford,	15,832	3	0	..	1	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	5	1	..	2	..	..	..
Woburn,	14,449	..	..	..	..	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	5	2	2	2	..	..	2
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	3	0	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	5	2	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Diphtheria and Cronp.	Cerebro-spinal meningitis.
Total of reporting towns,	1,534,025	571	192	65	103	8	13	22

DEATHS FROM PREVALENT DISEASES IN 25 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Sixty-five deaths were reported from the principal infectious diseases; cerebro-spinal meningitis, 22; diphtheria and croup, 13; diarrhœal diseases, 8; scarlet fever, 8; typhoid fever, 5; whooping-cough, 5; measles, 3; puerperal fever, 1.

No deaths were reported from small-pox, erysipelas and malarial fever.

There were 103 deaths from acute lung diseases; consumption, 62; and still-births, 28.

From scarlet fever: Boston, 3; Worcester, 2; Cambridge, Somerville and Lawrence, 1 each. From typhoid fever: Boston, Lowell, Somerville, Salem and Haverhill, 1 each. From whooping-cough: Boston, 2; Lowell, Cambridge and Everett, 1 each. From measles: Boston, Lowell and Taunton, 1 each. From puerperal fever: Boston, 1.

Deaths under five years of age numbered 192, as compared with 180 for the preceding week.

Deaths from the principal infectious diseases numbered 65, as compared with 71 for the preceding week.

The death rates for the week were: Boston, 21.89; Worcester, 15.34; Fall River, 21.06; Lowell, 12.51; Cambridge, 21.00; Lynn, 12.77; New Bedford, 12.49; Somerville, 17.92; Lawrence, 14.59; Springfield, 14.23; Holyoke, ——; Salem, 17.30; Brockton, ——; Malden, 19.33; Chelsea, 10.08; Haverhill, 23.17; Gloucester, ——; Newton, 17.93; Fitchburg, 10.99; Taunton, ——; Quincy, ——; Pittsfield, ——; Waltham, 12.15; Everett, 21.78; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 9.66; Marlborough, ——; Newburyport, 17.57; Woburn, ——.

The total death rate for the week was 19.35, as compared with 20.68 and 21.13 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING APRIL 24, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever, ...	163.	Measles.	20.
Diphtheria and croup, ...	156.	Typhoid fever, ...	511.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, April 24, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 18,	30.06	51	62	40	58	41	50	W.	W.	13	11	C.	C.		0.00
Monday, 19,	30.06	50	66	34	57	52	54	S.	N. W.	18	12	C.	C.		0.00
Tuesday, 20,	30.45	30	39	21	48	46	47	N. W.	N. W.	23	10	C.	C.		0.00
Wednes'y, 21,	30.55	43	57	29	46	53	56	W.	S.	9	10	C.	C.		0.00
Thursday, 22,	30.48	54	68	40	58	52	55	S. W.	S.	8	16	F.	F.		0.00
Friday, 23,	30.25	63	78	48	38	59	48	S. W.	S. W.	12	14	C.	C.		0.00
Saturday, 24,	30.11	66	79	52	62	56	59	S. W.	S. W.	12	7	F.	C.		0.00
Week, - -	30.28		79	38			53								0.00

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, May 1, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 17.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending May 1, 1897.

Deaths reported to the State Board of Health in 26 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diphtheria and Croup.	Cerebro-spinal meningitis.	Scarlet-fever.
Boston,	517,732	261	85	44	47	15	15	7
Worcester,	105,050	24	6	1	4	..	..	..
Fall River,	95,919	38	11	3	8	..	..	1
Lowell,	87,193	28	10	1	4	..	1	..
Cambridge,	86,812	30	9	5	6	..	3	2
Lynn,	65,220	21	5	1	4	..	..	..
New Bedford,	62,416	28	16	5	4	1	..	1
Somerville,	57,977	20	9	6	2	..	4	1
Lawrence,	55,510	21	..	1	3	..	..	..
Springfield,	54,790	16	4	1	2	..	..	1
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	13	6	1	..	..	1	..
Brockton,	35,853	..	..	..	..	..	..	..
Malden,	32,894	9	4	3	1	2	..	..
Chelsea,	32,716	14	4	1	4	..	1	..
Haverhill,	31,406	11	4	2	1	1	..	1
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	6	3	..	..	..	..	..
Fitchburg,	28,392	7	3	..	..	..	..	..
Taunton,	27,812	10	2	..	3	..	..	..
Quincy,	22,562	3	3	1	1	..	..	1
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	4	1	..	..	..	..	..
Everett,	21,575	7	3	1	2	1	..	..
North Adams,	19,135	4	1	1	..	1	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	..	..	..	..	..	..	..
Medford,	15,832	5	0	..	2	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	1	0	..	..	..	..	..
Woburn,	14,449	..	..	..	..	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	0	0	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	4	0	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	2	0	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diphtheria and Croup.	Cerebro-spinal meningitis.	Scarlet-fever.
Total of reporting towns,	1,556,587	587	189	78	98	21	25	15

DEATHS FROM PREVALENT DISEASES IN 26 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Seventy-eight deaths were reported from the principal infectious diseases; cerebro-spinal meningitis, 25; diphtheria and croup, 21; scarlet fever, 15; diarrhœal diseases, 5; erysipelas, 5; typhoid fever, 2; whooping-cough, 2; puerperal fever, 1; malarial fever, 1; measles, 1.

No deaths were reported from small-pox.

There were 98 deaths from acute lung diseases; consumption, 63; and still-births, 43.

From diarrhœal diseases: Fall River and New Bedford, 2 each; Boston, 1. From erysipelas: Boston, 2; Worcester, Lawrence and Malden, 1 each. From typhoid fever: Boston, 2. From whooping-cough: Boston and Somerville, 1 each. From puerperal fever: Boston, 1. From malarial fever: Lynn, 1.

Deaths under five years of age numbered 189, as compared with 192 for the preceding week.

Deaths from the principal infectious diseases numbered 78, as compared with 65 for the preceding week.

The death rates for the week were: Boston, 26.20; Worcester, 11.88; Fall River, 20.52; Lowell, 16.80; Cambridge, 23.91; Lynn, 17.49; New Bedford, 25.08; Somerville, 19.45; Lawrence, 19.67; Springfield, 15.18; Holyoke, ——; Salem, 18.74: Brockton, ——: Malden, 14.22; Chelsea, 22.24; Haverhill, 18.21; Gloucester, ——; Newton, 10.75; Fitchburg, 12.82; Taunton, 18.69; Quincy, 6.91; Pittsfield. ——; Waltham, 9.53; Everett, 16.81; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 16.42; Marlborough, ——; Newburyport, ——; Woburn, ——.

The total death rate for the week was 19.61, as compared with 19.35 and 20.68 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING MAY 1, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever, ...	153.	Measles.	537.
Diphtheria and croup, ...	155.	Typhoid fever, ...	18.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, May 1, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
April															
Sunday, 25,	29.86	68	81	54	67	57	62	S. W.	S. W.	8	21	C.	F.		0.00
Monday, 26,	29.66	57	63	51	67	62	64	N. W.	S. W.	8	12	F.	C.		0.02
Tuesday, 27,	29.61	44	51	38	62	92	77	N. W.	W.	20	12	C.	C.		0.02
Wednes'y, 28,	29.92	42	47	38	73	67	70	N. W.	N. E.	12	6	C.	C.		0.04
Thursday, 29,	29.88	50	60	40	72	69	70	N. W.	W.	8	7	F.	C.		T.
Friday, 30,	30.02	60	66	53	60	82	71	N. E.	E.	4	6	C.	C.		0.00
May															
Saturday, 1,	30.21	47	54	40	94	100	97	E.	E.	16	16	C.	C.		T.
Week, - -	29.88		60	45			73								0.08

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

MONTHLY MORTALITY

In 6 smaller towns of Massachusetts, as reported to the State Board of Health for the month of May.

TOWNS.	POPULATION. 1895.	Reported Deaths in Each.	Deaths under five years of age.	DEATHS FROM				
				Infectious Diseases.	Acute Lung Diseases.	Consumption.	Whooping-cough.	Cerebro-spinal Meningitis.
Amesbury,	9,984	13	0	1	1	1	..	..
Revere,	7,473	9	4	..	1	1	..	..
Hudson,	5,306	7	3	..	1	..	..	..
Easthampton,	4,790	9	0	2	2	..	1	..
Merrimac,	2,301	3	1	1	..	..	..	1
Norton,	1,614	1	0	..	..	1	..	..
Total of reporting towns,	31,468	42	8	4	5	3	1	1

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

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For the Week ending May 8, 1897.

Deaths reported to the State Board of Health in 26 Cities and Greater Towns.

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Boston,	517,732	201	63	36	28	13	13	5
Worcester,	105,050	39	10	2	4	..	1	1
Fall River,	95,919	33	15	3	7	..	..	..
Lowell,	87,193	37	14	3	10	2	..	..
Cambridge,	86,812	25	7	1	2	1	..	..
Lynn,	65,220	17	2	..	3	..	..	..
New Bedford,	62,416	23	6	1	2	..	..	..
Somerville,	57,977	21	6	9	3	1	6	..
Lawrence,	55,510	20	3	..	2	..	..	..
Springfield,	54,790	19	7	3	3	..	..	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	12	5	..	..	..	..	..
Brockton,	35,853	10	3	1	..	..	..	1
Malden,	32,894	11	4	3	2	1	2	..
Chelsea,	32,716	9	1	..	1	..	..	..
Haverhill,	31,406	10	5	1	1	..	..	1
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	..	..	..	..	..	..	..
Fitchburg,	28,392	8	2	1	3	..	..	..
Taunton,	27,812	18	5	2	2	..	..	1
Quincy,	22,562	..	..	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	7	2	..	..	..	..	..
Everett,	21,575	5	3	..	1	..	..	..
North Adams,	19,135	7	4	..	1	..	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	..	..	..	..	..	..	..
Medford,	15,832	4	1	..	1	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	6	1	..	..	..	..	..
Woburn,	14,449	5	2	..	2	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	3	1	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	5	0	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	2	0	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diphtheria and Croup.	Cerebro-spinal meningitis.	Scarlet-fever.
Total of reporting towns,	1,539,504	547	172	66	78	18	22	9

DEATHS FROM PREVALENT DISEASES IN 26 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Sixty-six deaths were reported from the principal infectious diseases; cerebro-spinal meningitis, 22; diphtheria and croup, 18; scarlet fever, 9; typhoid fever, 6; diarrhœal diseases, 6; measles, 2; whooping-cough, erysipelas and small-pox, each 1.

No deaths were reported from malarial fever and puerperal fever.

There were 78 deaths from acute lung diseases; consumption, 60; and still-births, 32.

From typhoid fever: Boston, Lowell, New Bedford, Somerville, Springfield and Taunton, 1 each. From diarrhœal diseases: Fall River, 3; Boston, 2; Fitchburg, 1. From measles: Springfield, 2. From whooping-cough: Boston, 1. From erysipelas: Boston, 1. From small-pox: Somerville, 1.

Deaths under five years of age numbered 172, as compared with 192 for the preceding week.

Deaths from the principal infectious diseases numbered 66, as compared with 65 for the preceding week.

The death rates for the week were: Boston, 20.18; Worcester, 19.29; Fall River, 17.82; Lowell, 22.05; Cambridge, 15.00; Lynn, 13 55; New Bedford, 19.15; Somerville, 18.81; Lawrence, 18.74; Springfield, 17.95; Holyoke, ——; Salem, 17.20; Brockton, 14.50; Malden, 17.38; Chelsea, 14.30; Haverhill, 16.55; Gloucester, ——; Newton, ——; Fitchburg, 14.65; Taunton, 33.64; Quincy, ——; Pittsfield. ——; Waltham, 16.68; Everett, 12.05; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 13.13; Marlborough, ——; Newburyport, 21.06; Woburn, 17.95.

The total death rate for the week was 19.61, as compared with 19.61 and 19.35 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING MAY 8, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever,	174.	Measles,	507.
Diphtheria and croup,	154.	Typhoid fever,	17.
Small-pox,	5.		

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, May 8, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 2,	29.94	44	46	41	98	96	97	N. E.	N.	20	12	O.	O.		1.14
Monday, 3,	29.86	50	56	44	98	100	99	N. E.	E.	8	7	O.	G.		0.05
Tuesday, 4,	29.91	55	66	44	85	63	74	S. W.	S.	10	12	C.	C.		0.30
Wednes'y, 5,	29.94	52	61	41	85	52	68	N. W.	S. E.	6	1	F.	C.		0.00
Thursday, 6,	30.06	54	60	47	73	63	68	N. E.	N. E.	13	3	C.	C.		0.00
Friday, 7,	30.12	47	51	43	73	85	79	N. E.	E.	6	13	C.	O.		0.00
Saturday, 8,	30.30	50	62	39	83	36	60	N.	N. W.	14	6	F.	C.		0.00
Week, - -	30.02		57	43			78								1.49

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of April.

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk,	471	106	577	Maple Syrup,	11	3	14
Butter,	48	0	48	Canned Goods,	..	..	..
Cheese,	7	0	7	Honey,	7	0	7
Lard,	18	3	21	Tea,	12	0	12
Olive Oil,	..	..	..	Coffee,	12	2	14
Vinegar,	16	15	31	Cocoa,	1	1	2
Spices,	159	30	189	Confectionery,	1	0	1
Cream of Tartar,	45	2	47	Other articles of Food and Drinks,	19	9	28
Molasses,	40	7	47	Drugs,	33	21	54
Syrups,	0	2	2				
Maple Sugar,	3	2	5				
				Totals,	903	203	1106

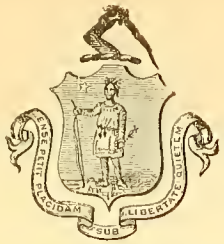
Percentage of adulteration, 18.3. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour, and the various other cereal products, are very rarely adulterated, and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration.

The ratio of samples of milk found to be below the standard was 18.4 per cent., as compared with 48.3 per cent for the preceding month. This apparent improvement in the quality of milk is due to the change in the standard of total solids, the required standard of March being 13 per cent., and that of April, May, June, July, and August, 12 per cent.

Six complaints were entered in the courts during the month for violation of the laws relative to the inspection of Food and Drugs. All of these were for violation of the Statutes relative to the sale of Milk. Fines were imposed amounting to $300

The samples of drugs found to be adulterated were Compound Spirits of Ether, Distilled Water, Olive Oil, Red Wine, White Wine and Whiskey.

Cities and towns from which samples of food were collected were: Boston, Fall River, Lowell, Cambridge, New Bedford, Somerville, Springfield, Salem, Brockton, Malden, Chelsea, Haverhill, Gloucester, Newton, Fitchburg, Waltham, Everett, Medford, Woburn, Beverly, Brookline, Framingham, Hardwick, Marlborough, Milford, Milton, Natick, Rockport, Stoneham, Ware and Watertown.



Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, May 15, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 19.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

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HIRAM F. MILLS, C.E., Lawrence.
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CHARLES H. PORTER, Quincy.
JULIAN A. MEAD, M.D., Watertown.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending May 15, 1897.

Deaths reported to the State Board of Health in 27 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diphtheria and Croup.	Cerebro-spinal meningitis.	Scarlet-fever.
Boston,	517,732	268	82	42	34	13	14	8
Worcester,	105,050	24	6	1	2	..	1	..
Fall River,	95,919	42	15	1	7	..	..	..
Lowell,	87,193	37	20	2	10	2	..	..
Cambridge,	86,812	26	5	1	1	1	..	..
Lynn,	65,220	19	6	1	3	1	..	..
New Bedford,	62,416	26	11	8	3	4	..	..
Somerville,	57,977	21	7	8	4	5	2	..
Lawrence,	55,510	14	5	2	3	1	..	..
Springfield,	54,790	15	5	..	1	..	..	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	13	6	2	1	..	..	1
Brockton,	35,853	6	5	1	2	..	..	1
Malden,	32,894	11	5	3	3	..	3	..
Chelsea,	32,716	11	1	..	1	..	..	..
Haverhill,	31,406	8	2	1	1	1	..	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	10	1	..	..	..	..	..
Fitchburg,	28,392	5	2	..	1	..	..	..
Taunton,	27,812	9	3	1	..	..	..	1
Quincy,	22,562	..	..	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	4	1	..	1	..	..	..
Everett,	21,575	4	3	2	..	..	..	..
North Adams,	19,135	5	1	..	1	..	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	..	..	..	..	..	..	..
Medford,	15,832	2	0	..	..	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	1	0	..	..	..	..	..
Woburn,	14,449	11	6	1	2	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	4	1	..	1	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	3	1	1	1	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	2	1	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diphtheria and Croup.	Cerebro-spinal meningitis.	Scarlet-fever.
Total of reporting towns,	1,584,326	601	201	78	83	28	20	11

DEATHS FROM PREVALENT DISEASES IN 27 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Seventy-eight deaths were reported from the principal infectious diseases; diphtheria and croup, 28; cerebro-spinal meningitis, 20; scarlet fever, 11; diarrhœal diseases, 6; erysipelas, 4; whooping-cough, 4; typhoid fever, 2; puerperal fever, 1.

No deaths were reported from small-pox and malarial fever.

There were 83 deaths from acute lung diseases; consumption, 69; and still-births, 41.

From diarrhœal diseases: New Bedford, 2; Boston, Fall River and Salem, 1 each. From whooping-cough: Everett, 2; Boston and Woburn, 1 each. From erysipelas: Boston, 3; Somerville, 1. From typhoid fever: New Bedford, 2. From measles: Boston, 2.

Deaths under five years of age numbered 201, as compared with 172 for the preceding week.

Deaths from the principal infectious diseases numbered 78, as compared with 66 for the preceding week.

The death rates for the week were: Boston, 26.90; Worcester, 11.88; Fall River, 22.68; Lowell, 22.05; Cambridge, 15.60; Lynn, 15.14; New Bedford, 21.65; Somerville, 18.71; Lawrence, 13.11; Springfield, 14.17; Holyoke, ——; Salem, 18.74; Brockton, 8.70; Malden, 17.38; Chelsea, 17.47; Haverhill, 13.24; Gloucester, ——; Newton, 17.93; Fitchburg, 9.16; Taunton, 16.82; Quincy, ——; Pittsfield. ——; Waltham, 9.53; Everett, 11.64; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 6.56; Marlborough, ——; Newburyport, 3.51; Woburn, ——.

The total death rate for the week was 19.72, as compared with 19.61 and 19.61 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING MAY 15, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever,	197.	Measles,	622.
Diphtheria and croup,	159.	Typhoid fever,	26.
Small-pox,	8.		

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, May 15, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 9,	29.96	61	76	46	58	52	55	W.	S. W.	5	12	O.	O.		0.00
Monday, 10,	29.78	55	62	48	76	100	88	W.	N. E.	4	5	F.	R.		0.53
Tuesday, 11,	29.98	61	72	50	91	89	90	S. E.	S.	3	11	C.	C.		0.15
Wednes'y, 12,	29.92	60	69	52	94	94	94	S. E.	S. W.	3	12	R.	O.		0.19
Thursday, 13,	29.83	64	70	58	97	92	91	S.	S. W.	10	19	R.	R.		0.12
Friday, 14,	29.89	64	70	57	88	97	92	W.	S.	4	9	F.	O.		0.05
Saturday, 15,	30.00	66	74	58	89	78	84	W.	W.	12	7	T.	C.		0.00
Week, - -	29.91		70	53			85								1.04

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, May 22, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 20.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

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JULIAN A. MEAD, M.D., Watertown.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending May 22, 1897.

Deaths reported to the State Board of Health in 28 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Acute Lung Diseases.	Whooping-cough.	Diphtheria and Croup.	Cerebro-spinal meningitis.
Boston,	517,732	197	57	34	27	2	8	17
Worcester,	105,050	23	10	1	2	..	..	1
Fall River,	95,919	32	14	..	8	..	..	..
Lowell,	87,193	41	20	6	5	2	1	2
Cambridge,	86,812	23	10	1	3	1	..	..
Lynn,	65,220	25	..	3	..	..	2	..
New Bedford,	62,416	17	7	2	6	..	1	..
Somerville,	57,977	16	6	4	2	..	..	3
Lawrence,	55,510	20	10	..	4	..	..	..
Springfield,	54,790	21	6	4	2	1	..	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	11	1	..	1	..	..	..
Brockton,	35,853	6	2	..	..	..	..	..
Malden,	32,894	6	3	2	..	1	..	..
Chelsea,	32,716	18	7	6	3	2	1	2
Haverhill,	31,406	11	2	1	1	..	..	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	13	2	1	1	..	1	..
Fitchburg,	28,392	12	5	1	1	..	..	1
Taunton,	27,812	14	5	2	1	..	1	1
Quincy,	22,562	6	3	..	3	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	9	3	1	..	..	..	..
Everett,	21,575	6	1	..	..	..	..	..
North Adams,	19,135	8	2	2	..	..	2	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	..	..	..	..	..	..	..
Medford,	15,832	2	2	1	..	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	5	1	..	..	..	..	..
Woburn,	14,449	6	4	1	2	..	..	1
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	2	2	1	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	6	0	2	1	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	1	0	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Whooping-cough.	Diphtheria and Croup.	Cerebro-spinal meningitis.
Total of reporting towns,	1,606,888	557	185	76	73	9	17	28

DEATHS FROM PREVALENT DISEASES IN 28 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Seventy-six deaths were reported from the principal infectious diseases; cerebro-spinal meningitis, 28; diphtheria and croup, 17; whooping-cough, 9; diarrhœal diseases, 8; scarlet fever, 4; erysipelas, 4; typhoid fever, 3; puerperal fever, 2; measles, 1.

No deaths were reported from small-pox and malarial fever.

There were 73 deaths from acute lung diseases; consumption, 61; and still-births, 46.

From diarrhœal diseases: Boston, 2; Lowell, Somerville, Springfield, Waltham, Medford and Clinton, 1 each. From scarlet-fever: Boston, 2; Hyde Park and Clinton, 1 each. From erysipelas: Boston, New Bedford, Springfield and Haverhill, 1 each. From typhoid fever: Boston, 2; Lynn, 1. From puerperal fever: Springfield and Malden, 1 each. From measles: Chelsea, 1.

Deaths under five years of age numbered 185, as compared with 201 for the preceding week.

Deaths from the principal infectious diseases numbered 76, as compared with 78 for the preceding week.

The death rates for the week were: Boston, 19.77; Worcester, 11.38; Fall River, 17.28; Lowell, 24.44; Cambridge, 13.80; Lynn, 19.93; New Bedford, 14.16; Somerville, 14.33; Lawrence, 18.74; Springfield, 19.84; Holyoke, ——; Salem, 15.86; Brockton, 8.70; Malden, 9.48; Chelsea, 28.60; Haverhill, 18.20; Gloucester, ——; Newton, 23.31; Fitchburg, 22.18; Taunton, 26.16; Quincy, 13.83; Pittsfield. ——; Waltham, 21.45; Everett, 14.46; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 6.56; Marlborough, ——; Newburyport, 17.57; Woburn, 21.54.

The total death rate for the week was 18.02, as compared with 19.72 and 19.61 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING MAY 22, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever,	179.	Measles.	474.
Diphtheria and croup,	130.	Typhoid fever,	24.
Small-pox,	5.		

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, May 22, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 16,	30.20	56	60	51	81	79	80	N. E.	N. E.	9	8	O.	O.		0.04
Monday, 17,	30.18	58	64	52	89	69	79	N.	S. E.	10	3	O.	C.		0.00
Tuesday, 18,	30.08	66	76	55	47	53	50	N. W.	S. W.	12	12	F.	C.		0.00
Wednes'y, 19,	30.25	60	68	52	41	61	51	N.	S. W.	14	12	C.	C.		0.00
Thursday, 20,	30.02	60	71	49	67	63	65	S. W.	S. W.	16	24	F.	O.		0.00
Friday, 21,	29.69	64	75	53	69	89	79	S. W.	W.	19	7	F.	R.		0.14
Saturday, 22,	29.88	58	68	49	56	74	65	N. W.	N. W.	10	5	C.	C.		0.04
Week, - -	30.04		69	52			67								0.22

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, May 29, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 21.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending May 29, 1897.

Deaths reported to the State Board of Health in 26 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diphtheria and Croup.	Scarlet-fever.	Cerebro-spinal meningitis.
Boston,	517,732	206	66	33	25	14	5	6
Worcester,	105,050	23	10	1	5	..	..	..
Fall River,	95,919	27	17	6	4	..	..	..
Lowell,	87,193	20	5	..	4	..	..	..
Cambridge,	86,812	20	8	3	2	2	1	..
Lynn,	65,220	16	3	2	..	1	..	..
New Bedford,	62,416	24	17	7	4	2	3	1
Somerville,	57,977	13	5	6	2	1	..	4
Lawrence,	55,510	22	11	..	5	..	..	..
Springfield,	54,790	11	4	2	..	2	..	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	9	1	1	..	..	1	..
Brockton,	35,853	10	..	..	2	..	..	..
Malden,	32,894	6	2	1	..	..	..	1
Chelsea,	32,716	8	3	1	..	1	..	..
Haverhill,	31,406	9	3	..	2	..	..	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	7	3	2	..	1	..	1
Fitchburg,	28,392	5	0	..	..	..	..	..
Taunton,	27,812	6	1	..	2	..	..	..
Quincy,	22,562	7	3	1	..	..	..	1
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	4	0	..	..	..	..	..
Everett,	21,575	5	3	1	1	..	1	..
North Adams,	19,135	5	3	1	1	..	1	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	..	..	..	..	..	..	..
Medford,	15,832	1	0	..	..	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	4	1	1	..	1	..	..
Woburn,	14,449	..	..	..	..	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	2	0	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	3	0	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diphtheria and Croup.	Scarlet-fever.	Cerebro-spinal meningitis.
Total of reporting towns,	1,580,613	473	169	69	59	25	12	14

DEATHS FROM PREVALENT DISEASES IN 26 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Sixty-nine deaths were reported from the principal infectious diseases: diphtheria and croup, 25; cerebro-spinal meningitis, 14; scarlet fever, 12; diarrhœal diseases, 6; typhoid fever, 3; measles, 3; whooping-cough, 2; erysipelas, 2; puerperal fever, 1.

No deaths were reported from small-pox and malarial fever.

There were 59 deaths from acute lung diseases; consumption, 55; and still-births, 41.

From diarrhœal diseases: Fall River, 5; Worcester, 1. From typhoid fever: Boston, 3. From measles: Boston, Fall River and New Bedford, 1 each. From whooping-cough; Boston and Somerville, 1 each. From erysipelas: Boston, 2. From puerperal fever: Boston, 1.

Deaths under five years of age numbered 169, as compared with 185 for the preceding week.

Deaths from the principal infectious diseases numbered 69, as compared with 76 for the preceding week.

The death rates for the week were: Boston, 20.68; Worcester, 11.38; Fall River, 14.58; Lowell, 11.92; Cambridge, 12.00; Lynn, 12.75; New Bedford, 19.99; Somerville, 11.64; Lawrence, 20.61; Springfield, 10.39; Holyoke, ——; Salem, 12.96; Brockton, 14.50; Maldeu, 9.48; Chelsea, 12.71; Haverhill, 14.89; Gloucester, ——; Newton, 10.96; Fitchburg, 9.16; Taunton, 11.21; Quincy, 16.13; Pittsfield. ——; Waltham, 9.53; Everett, 12.05; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 3.28; Marlborough, ——; Newburyport, 14.25; Woburn, ——.

The total death rate for the week was 15.56, as compared with 18.02 and 19.72 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING MAY 29, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

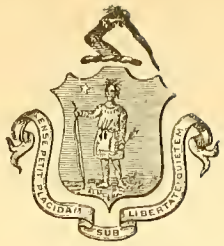
Scarlet-fever,	155.	Measles,	581.
Diphtheria and croup,	135.	Typhoid fever,	17.
Small-pox,	1.		

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, May 29, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 23,	30.02	60	70	51	63	68	66	S. W.	S.	7	22	C.	C.		0.00
Monday, 24,	29.96	64	68	59	74	87	80	S.	S.	18	11	O.	F.		T.
Tuesday, 25,	29.94	62	71	54	59	81	70	S.	S. W.	12	6	O.	O.		0.75
Wednes'y, 26,	30.07	54	60	49	89	81	85	N. W.	N.	16	8	F.	O.		0.00
Thursday, 27,	29.84	52	54	49	66	92	79	N.	W.	13	8	O.	R.		0.05
Friday, 28,	29.72	58	66	49	75	71	73	N. W.	E.	13	3	R.	C.		0.01
Saturday, 29,	29.67	62	70	54	86	58	72	S.	W.	13	10	C.	C.		T.
Week, - -	29.89		66	52			75								0.81

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.



Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, June 5, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 22.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending June 5, 1897.

Deaths reported to the State Board of Health in 25 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more thau 10,000 inhabitants. A monthly report will also be issued. to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this requcst.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infections Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Diphtheria and Croup.	Cerebro-spinal meningitis.
Boston,	517,732	205	61	27	43	..	12	10
Worcester,	105,050	19	8	2	3	1	..	1
Fall River,	95,919	28	8	4	2	3	..	..
Lowell,	87,193	41	11	1	7	..	..	1
Cambridge,	86,812	18	5	5	..	1	2	2
Lynn,	65,220	12	0	1	2	..	..	..
New Bedford,	62,416	19	8	3	2	1	..	1
Somerville,	57,977	15	8	6	1	..	..	4
Lawrence,	55,510	12	6	1	4	1	..	..
Springfield,	54,790	26	5	3	1	..	..	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	6	1	1	..	..	1	..
Brockton,	35,853	8	3	..	..	..	..	..
Malden,	32,894	10	0	..	2	..	..	..
Chelsea,	32,716	..	..	..	..	..	..	..
Haverhill,	31,406	8	0	..	2	..	..	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	8	0	1	1	..	..	1
Fitchburg,	28,392	10	12	2	1	..	..	..
Taunton,	27,812	8	2	..	1	..	..	..
Quincy,	22,562	..	..	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	2	0	..	1	..	..	..
Everett,	21,575	7	2	..	2	..	..	..
North Adams,	19,135	4	1	..	..	..	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	2	1	1	1	..	1	..
Medford,	15,832	7	1	..	..	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	1	0	..	..	..	..	..
Woburn,	14,449	..	..	..	..	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	3	0	2	..	1	..	1
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	..	..	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield.	10,663	4	0	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Diphtheria and Croup.	Cerebro-spinal meningitis.
Total of reporting towns,	1,473,140	483	141	59	76	8	16	21

DEATHS FROM PREVALENT DISEASES IN 25 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Fifty-nine deaths were reported from the principal infectious diseases: cerebro-spinal meningitis, 21; diphtheria and croup, 16; diarrhœal diseases, 8; scarlet fever, 6; typhoid fever, 5; puerperal fever, 2; whooping-cough, 1.

No deaths were reported from small-pox, measles and malarial fever.

There were 76 deaths from acute lung diseases; consumption, 46; and still-births, 34.

From scarlet fever: Boston, 4; New Bedford and Springfield, 1 each. From typhoid fever: Boston, Fall River, Lynn, Springfield and Fitchburg, 1 each. From puerperal fever: Springfield and Fitchburg, 1 each. From whooping-cough: Somerville, 1.

Deaths under five years of age numbered 141, as compared with 169 for the preceding week.

Deaths from the principal infectious diseases numbered 59, as compared with 69 for the preceding week.

The death rates for the week were: Boston, 20.58; Worcester, 9.99; Fall River, 15.12; Lowell, 24.43; Cambridge, 10.80: Lynn. 9 56; New Bedford, 15.82; Somerville, 13.44; Lawrence, 11.24; Springfield, 23.57; Holyoke, ——; Salem, 8.65: Brockton, 12.00; Malden, 15.80; Chelsea, ——; Haverhill, 13.84; Gloucester, ——; Newton, 14.34; Fitchburg, 18.32; Taunton, 14.95; Quincy, ——; Pittsfield. ——; Waltham, 4.86; Everett, 16.87; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 22.98; Marlborough, ——; Newburyport, 3.51; Woburn, ——.

The total death rate for the week was 17.05, as compared with 15.56 and 18.02 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING JUNE 5, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever,	155.	Measles,	486.
Diphtheria and croup,	194.	Typhoid fever,	35.
Small-pox,	2.		

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

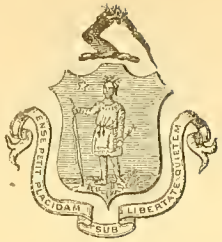
DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, June 5, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
May.															
Sunday, 30,	29.90	64	75	52	62	62	62	W.	S.	9	12	C.	O.		0.00
Monday, 31,	29.78	61	68	54	94	92	93	N. W.	W.	2	8	O.	F.		0.44
June.															
Tuesday, 1,	29.89	54	60	49	52	62	56	W.	N. W.	12	16	C.	F.		T.
Wednes'y, 2,	30.12	59	71	47	40	34	37	N. W.	W.	19	7	C.	C.		0.00
Thursday, 3,	29.96	64	74	54	69	80	74	S.	S. W.	10	20	O.	O.		0.01
Friday, 4,	29.86	62	72	52	85	97	91	W.	N. E.	12	8	C.	O.		0.58
Saturday, 5,	29.92	54	58	51	88	98	93	N.	N. E.	7	5	R.	O.		0.05
Week, - -	29.92		68	51			72								1.08

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

MONTHLY MORTALITY

In 6 smaller towns of Massachusetts, as reported to the State Board of Health for the month of May.

TOWNS.	Population. 1895.	Reported Deaths in Each.	Deaths under five years of age.	Deaths from				
				Infectious Diseases.	Acute Lung Diseases.	Measles.	Diphtheria and Croup.	Cerebro-spinal Meningitis.
Amesbury,	9,986	4	2	1	1	..	..	1
Revere,	7,423	2	1	..	1	..	..	..
Hudson,	5,308	7	2	1	..	..	1	..
Easthampton,	4,790	10	0	..	1	..	..	..
Merrimac,	2,301	1	0	..	1	..	..	..
Norton,	1,614	2	0	1	..	1	..	..
Total of reporting towns,	31,422	26	5	3	4	1	1	1



Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, June 12, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 23.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

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MORTALITY OF MASSACHUSETTS

For the Week ending June 12, 1897.

Deaths reported to the State Board of Health in 27 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued. to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Diphtheria and Croup.	Cerebro-spinal meningitis.
Boston,	517,732	174	50	30	26	3	9	8
Worcester,	105,050	20	8	3	4	..	..	..
Fall River,	95,919	26	12	4	3	3	1	..
Lowell,	87,193	23	3	..	4	..	..	..
Cambridge,	86,812	33	13	5	6	..	4	..
Lynn,	65,220	23	6	..	2	..	..	..
New Bedford,	62,416	24	11	3	..	2	..	..
Somerville,	57,977	17	9	4	3	1	1	2
Lawrence,	55,510	18	7	3	2	1	1	..
Springfield,	54,790	14	3	1	3	1	..	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	13	3	..	..	..	..	..
Brockton,	35,853	5	1	..	..	..	..	..
Malden,	32,894	10	1	1	4	..	1	..
Chelsea,	32,716	11	3	1	3	..	1	..
Haverhill,	31,406	12	2	1	2	..	..	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	7	3	2	..	..	1	1
Fitchburg,	28,392	7	3	1	..	..	1	..
Taunton,	27,812	10	0	..	2	..	..	..
Quincy,	22,562	..	..	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	5	0	..	..	..	..	..
Everett,	21,575	8	2	1	..	..	..	..
North Adams,	19,135	4	0	1	..	..	1	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	3	1	..	..	..	..	..
Medford,	15,832	4	1	..	..	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	5	0	..	1	..	..	..
Woburn,	14,449	..	..	..	..	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	4	2	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	2	1	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	2	0	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Diphtheria and Croup.	Cerebro-spinal meningitis.
Total of reporting towns,	1,571,248	484	145	61	65	11	21	11

DEATHS FROM PREVALENT DISEASES IN 27 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Sixty-one deaths were reported from the principal infectious diseases: diphtheria and croup, 21; diarrhœal diseases, 11; cerebro-spinal meningitis, 11; scarlet fever, 7; measles, 3; whooping-cough, 2; erysipelas, 2.

No deaths were reported from small-pox, puerperal fever and malarial fever.

There were 65 deaths from consumption; acute lung diseases, 48; and still-births, 38.

From scarlet fever: Boston, 5; Worcester and New Bedford, 1 each. From measles: Boston, 3. From whooping-cough: Cambridge and Everett, 1 each. From erysipelas: Boston and Worcester, 1 each.

Deaths under five years of age numbered 145, as compared with 141 for the preceding week.

Deaths from the principal infectious diseases numbered 61, as compared with 59 for the preceding week.

The death rates for the week were: Boston, 17.48; Worcester, 9.90; Fall River, 14.04; Lowell, 13.70; Cambridge, 19.80; Lynn, 18 33; New Bedford, 19.99; Somerville, 15.23; Lawrence, 16.86; Springfield, 13.23; Holyoke, ——; Salem, 18.74; Brockton, 7.25; Malden, 15.80; Chelsea, 17.47; Haverhill, 19.86; Gloucester, ——; Newton, 12.55; Fitchburg, 12.82; Taunton, 18.96; Quincy, ——; Pittsfield. ——; Waltham, 11.92; Everett, 19.28; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 13.13; Marlborough, ——; Newburyport, 17.57; Woburn, ——.

The total death rate for the week was 16.02, as compared with 17.05 and 15.56 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING JUNE 12, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever,	133.	Measles.	273.
Diphtheria and croup,	118.	Typhoid fever,	19.
Small-pox,	2.		

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.		DIRECTION OF WIND.			VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, June 12, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 6,	30.16	52	85	50	96	81	88	N. E.	E.	6	7	O.	O.		T.
Monday, 7,	30.30	53	56	50	87	90	88	N. E.	N. E.	10	9	O.	O.		0.00
Tuesday, 8,	30.30	52	55	49	84	85	84	E.	E.	15	9	F.	O.		0.00
Wednes'y, 9,	30.08	53	56	50	97	97	97	N. E.	E.	17	16	R.	R.		1.22
Thursday, 10,	29.86	54	56	53	98	91	94	N. E.	N. E.	12	19	R.	O.		0.97
Friday, 11,	29.89	65	78	52	78	75	76	N. W.	E.	13	10	C.	C.		T.
Saturday, 12,	29.76	60	67	53	82	85	84	E.	N.	5	9	O.	F.		T.
Week, - -	30.05		65	51			87								2.19

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of May.

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk, . . .	447	57	504	Maple Syrup, . .	3	0	3
Butter, . . .	25	0	25	Canned Goods, .	20	2	22
Cheese, . . .	1	0	1	Honey, . . .	1	3	4
Lard, . . .	..	..	..	Tea, . . .	6	0	6
Olive Oil, . . .	..	..	..	Coffee, . . .	7	1	8
Vinegar, . . .	7	5	12	Cocoa, . . .	..	..	..
Spices, . . .	96	20	116	Confectionery, .	4	0	4
Cream of Tartar, .	23	0	23	Other articles of Food and Drinks,	9	2	11
Molasses, . . .	20	3	23	Drugs, . . .	41	6	47
Syrups, . . .	..	..	..				
Maple Sugar, . .	1	0	1				
				Totals, . .	711	99	810

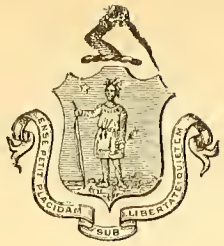
Percentage of adulteration, 12.2. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour, and the various other cereal products, are very rarely adulterated, and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration.

The ratio of samples of milk found to be below the standard was 11.1 per cent., as compared with 18.4 per cent. for the preceding month.

Nine complaints were entered in the courts during the month for violation of the laws relative to the inspection of Food and Drugs. Five of these were for violation of the Statutes relative to the sale of Milk, one of Maple Syrup, one of Molasses, one of Coffee and one of Coffee and Maple Syrup. Fines were imposed amounting to $245.

The samples of drugs found to be adulterated were Bismuth Subnitrate, Extract of Liquorice and Red Wine.

Cities and towns from which samples of food were collected were: Boston, Worcester, Cambridge, Somerville, Lawrence, Springfield, Salem, Brockton, Malden, Chelsea, Haverhill, Gloucester, Newton, Quincy, Waltham, Medford, Andover, Dedham, Greenfield, Hyde Park, Montague, Northborough, Rockland, Rockport, Stockbridge, Turner's Falls, Watertown, Wakefield, Webster, Whitman and Winchester.



Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, June 19, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 24.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending June 19, 1897.

Deaths reported to the State Board of Health in 26 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Diphtheria and Croup.	Cerebro-spinal meningitis.
Boston,	517,732	190	35	29	24	5	8	6
Worcester,	105,050	33	7	2	2	..	1	..
Fall River,	95,919	38	17	8	5	7	..	..
Lowell,	87,193	31	11	2	3	1	..	..
Cambridge,	86,812	29	9	3	7	1	1	..
Lynn,	65,220	21	1	..	2	..	..	..
New Bedford,	62,416	17	11	3	4	2	..	..
Somerville,	57,977	10	4	2	..	1	..	1
Lawrence,	55,510	14	7	4	..	..	..	..
Springfield,	54,790	21	7	1	4	..	..	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	5	0	1	..	1	..	..
Brockton,	35,853	..	..	..	..	..	..	..
Malden,	32,894	4	1	..	..	..	..	..
Chelsea,	32,716	11	2	2	..	..	..	1
Haverhill,	31,406	8	3	1	1	..	1	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	6	1	1	1	..	1	..
Fitchburg,	28,392	9	2	..	..	..	..	..
Taunton,	27,812	15	2	1	..	..	..	..
Quincy,	22,562	..	..	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	8	2	1	..	..	..	..
Everett,	21,575	3	0	..	..	..	..	..
North Adams,	19,135	8	2	..	2	..	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	4	1	..	1	..	..	..
Medford,	15,832	5	0	..	1	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	6	0	..	2	..	..	..
Woburn,	14,449	..	..	..	..	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	4	2	1	..	..	..	1
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	3	2	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	3	1	..	1	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Diphtheria and Croup.	Cerebro-spinal meningitis.
Total of reporting towns,	1,535,395	506	130	62	60	18	12	9

DEATHS FROM PREVALENT DISEASES IN 26 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Sixty-two deaths were reported from the principal infectious diseases: diarrhœal diseases, 18; diphtheria and croup, 12; cerebro-spinal meuingitis, 9; scarlet fever, 8; typhoid fever, 6; measles, 4; whooping-cough, 2; erysipelas, 2; small-pox, 1.

No deaths were reported from puerperal fever and malarial fever.

There were 60 deaths from consumptiou; acute luug diseases, 58; aud still-births, 28.

From scarlet fever: Boston, 5; Lawrence, 2; Worcester, 1. From typhoid fever: Boston, 3; Lawrence, Tauuton aud Waltham, 1 each. From measles: Boston, Fall River, Lowell aud New Bedford, 1 each. From whooping-cough: Boston and Lawrence, 1 each. From erysipelas: Springfield aud Chelsea, 1 each. From small-pox: Cambridge, 1.

Deaths under five years of age numbered 130, as compared with 145 for the preceding week.

Deaths from the principal infectious diseases numbered 62, as compared with 61 for the preceding week.

The death rates for the week were: Boston, 19.07; Worcester, 16.33; Fall River, 20.52; Lowell, 18.47; Cambridge, 17.40; Lynn, 16.74; New Bedford, 14.16; Somerville, 8.96; Lawrence, 13.11; Springfield, 19.84; Holyoke, ——; Salem, 7.21; Brockton, ——; Malden, 6.32; Chelsea, 17.47; Haverhill, 13.24; Gloucester, ——; Newton, 10.75; Fitchburg, 16.48; Taunton, 28.03; Quincy, ——; Pittsfield. ——; Waltham, 19.07; Everett, 7.23; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 13.13; Marlborough, ——; Newburyport, 21.08; Woburn, ——.

The total death rate for the week was 17.14, as compared with 16.02 and 17.05 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING JUNE 19, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever,	127.	Measles.	314.
Diphtheria and croup,	130.	Typhoid fever,	21.
Small-pox,	1.		

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, June 19, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.		8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 13,	29.68	54	58	50	94	95	94	N. E.	N. E.	4	7		O.	O.		0.26
Monday, 14,	29.79	57	64	50	87	91	89	N.	E.	7	5		O.	O.		0.02
Tuesday, 15,	29.79	63	75	51	85	67	76	W.	W.	4	10		C.	F.		0.01
Wednes'y, 16,	29.79	68	77	58	54	58	56	N. W.	N. W.	15	7		C.	C.		0.00
Thursday, 17,	29.86	66	76	57	56	58	57	W.	S.	4	10		F.	O.		0.00
Friday, 18,	29.97	68	76	60	58	78	68	N.	N. E.	6	13		C.	C.		0.00
Saturday, 19,	30.00	69	81	57	46	64	55	N.	S.	2	12		F.	F.		0.00
Week, - -	29.84		72	55			71									0.29

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, June 26, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 25.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending June 26, 1897.

Deaths reported to the State Board of Health in 26 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Diphtheria and Croup.	Cerebro-spinal meningitis.
Boston,	517,732	197	63	28	23	7	9	5
Worcester,	105,050	30	15	5	4	3	..	2
Fall River,	95,919	40	16	7	3	7	..	..
Lowell,	87,193	30	12	2	1	1	..	..
Cambridge,	86,812	23	12	4	3	..	..	1
Lynn,	65,220	14	5	2	1	..	1	..
New Bedford,	62,416	19	8	1	..	1	..	..
Somerville,	57,977	13	5	1	1	..	..	..
Lawrence,	55,510	18	10	4	6	2	..	..
Springfield,	54,790	11	2	1	2	1	..	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	8	4	1	..	..	1	..
Brockton,	35,853	8	0	2	..	..	1	..
Malden,	32,894	7	2	1	2	..	..	1
Chelsea,	32,716	6	2	..	1	..	..	..
Haverhill,	31,406	8	1	1	..	..	..	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	3	1	..	..	..	..	..
Fitchburg,	28,392	8	3	..	1	..	..	..
Taunton,	27,812	9	0	..	3	..	..	..
Quincy,	22,562	4	1	1	1	..	..	1
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	8	1	..	..	..	..	..
Everett,	21,575	7	3	..	..	..	..	..
North Adams,	19,135	3	1	..	..	..	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	..	..	..	..	..	..	..
Medford,	15,832	4	1	..	..	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	5	0	..	..	..	..	..
Woburn,	14,449	..	..	..	..	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	4	0	..	2	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	2	0	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Diphtheria and Croup.	Cerebro-spinal meningitis.
Total of reporting towns,	1,580,583	489	168	61	54	22	12	10

DEATHS FROM PREVALENT DISEASES IN 26 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Sixty-one deaths were reported from the principal infectious diseases: diarrhœal diseases, 22; diphtheria and croup, 12; cerebro-spinal meningitis, 10; typhoid fever, 5; scarlet fever, 4; measles, 3; whooping-cough and erysipelas, each 2; small-pox, 1.

No deaths were reported from malarial fever aud puerperal fever.

There were 54 deaths from consumption; acute lung diseases, 50; and still-births, 35.

From typhoid fever: Bostou, 3; Brockton and Haverhill, 1 each. From scarlet fever: Boston and Lawrence, 2 each. From measles: Boston, Lynn and Somerville, 1 each. From whooping-cough: Boston aud Cambridge, 1 each. From erysipelas: Lowell and Cambridge, 1 each. From small-pox: Cambridge, 1.

Deaths under five years of age numbered 168, as compared with 130 for the preceding week.

Deaths from the principal infectious diseases numbered 61, as compared with 62 for the preceding week.

The death rates for the week were: Boston, 19.77; Worcester, 14.85; Fall River, 21.60; Lowell, 17.88; Cambridge, 12.80; Lyun, 11.16; New Bedford, 15.82; Somerville, 11.64; Lawrence, 16.86; Springfield, 10.39; Holyoke, ——; Salem, 11.53; Brockton, 11.60; Malden, 10.56; Chelsea, 9.53; Haverhill, 13.24; Gloucester, ——; Newtou, 5.37; Fitchburg, 14.65; Taunton, 16.82; Quincy, 9.22; Pittsfield. ——; Waltham, 19.09; Everett, 16.87; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 13.13; Marlborough, ——; Newburyport, 17.57; Woburn, ——.

The total death rate for the week was 16.08, as compared with 17.14 and 16.02 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING JUNE 26, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

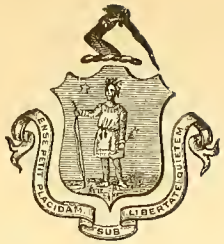
Scarlet-fever, ...	95.	Measles, ...	227.
Diphtheria and croup, ...	128.	Typhoid fever, ...	28.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.		DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, June 26, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 20,	29.73	64	72	56	89	62	76	S. W.	N.	15	21	O.	C.		0.28
Monday, 21,	29.82	60	70	50	53	46	50	W.	W.	7	11	C.	C.		0.00
Tuesday, 22,	29.94	64	77	52	47	47	47	W.	S. W.	12	12	C.	C.		0.00
Wednes'y, 23,	29.99	69	82	56	64	52	68	S. W.	S. W.	12	12	C.	C.		0.00
Thursday, 24,	29.94	74	86	63	65	77	71	S. W.	S. W.	12	12	C.	O.		0.00
Friday, 25,	29.22	78	87	68	77	53	65	S. W.	W.	16	8	O.	O.		0.03
Saturday, 26,	29.90	66	76	57	58	60	59	N. W.	N. W.	10	12	F.	C.		0.00
Week, - -	29.79		78	57			62								0.31

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.



Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, July 3, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 26.

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JULIAN A. MEAD, M.D., Watertown.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending July 3, 1897.

Deaths reported to the State Board of Health in 24 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Diphtheria and Croup.	Cerebro-spinal meningitis.
Boston,	517,732	136	42	20	23	4	9	3
Worcester,	105,050	35	16	8	3	3	..	4
Fall River,	95,919	45	28	18	4	17	1	..
Lowell,	87,193	26	10	5	3	4	..	..
Cambridge,	86,812	21	7	..	2	..	..	..
Lynn,	65,220	14	4	1	..	..	1	..
New Bedford,	62,416	22	11	7	2	4	1	..
Somerville,	57,977	19	6	1	2	..	..	1
Lawrence,	55,510	23	13	7	2	5	..	..
Springfield,	54,790	22	2	3	1	1	..	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	8	1	..	1	..	..	..
Brockton,	35,853	..	..	..	..	..	..	..
Malden,	32,894	5	1	1	1	..	..	1
Chelsea,	32,716	10	4	1	..	..	..	1
Haverhill,	31,405	12	3	2	5	1	1	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	10	2	1	..	..	..	1
Fitchburg,	28,392	9	2	..	..	..	..	..
Taunton,	27,812	9	1	..	..	..	..	..
Quincy,	22,562	..	..	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	4	1	..	1	..	..	..
Everett,	21,575	6	1	2	..	..	..	1
North Adams,	19,135	2	0	..	1	..	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	1	0	..	..	..	..	..
Medford,	15,832	3	3	1	1	1	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	6	1	..	..	..	..	..
Woburn,	14,449	..	..	..	..	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	..	..	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	2	0	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Diphtheria and Croup.	Cerebro-spinal meningitis.
Total of reporting towns,	1,526,866	450	159	78	52	40	13	12

DEATHS FROM PREVALENT DISEASES IN 24 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Seventy-eight deaths were reported from the principal infectious diseases: diarrhœal diseases, 40; diphtheria and croup, 13; cerebro-spinal meningitis, 12; scarlet fever, 4; whooping-cough, 4; typhoid fever, 3; measles, 1; puerperal fever, 1.

No deaths were reported from small-pox and malarial fever.

There were 52 deaths from acute lung diseases; consumption, 50; and still-births, 31.

From scarlet fever: Lawrence, 2; Boston and New Bedford, 1 each. From whooping-cough: Boston, New Bedford, Springfield and Everett, 1 each. From typhoid fever: Boston, Worcester and Springfield, 1 each. From puerperal fever: Boston, 1. From measles: Lowell, 1

Deaths under five years of age numbered 159, as compared with 168 for the preceding week.

Deaths from the principal infectious diseases numbered 78, as compared with 61 for the preceding week.

The death rates for the week were: Boston, 13.65; Worcester, 17.32; Fall River, 24.30; Lowell, 15.49; Cambridge, 12.60; Lynn, 11.16; New Bedford, 18.32; Somerville, 17.02; Lawrence, 21.55; Springfield, 20.79; Holyoke, ——; Salem, 11.53; Brockton, ——; Malden, 7.90; Chelsea, 15.89; Haverhill, 19.86; Gloucester, ——; Newton, 17.93; Fitchburg, 16.48; Taunton, 16.82; Quincy, ——; Pittsfield. ——; Waltham, 9.53; Everett, 14.46; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 9.85; Marlborough, ——; Newburyport, 21.08; Woburn, ——.

The total death rate for the week was 15.32, as compared with 16.08 and 17.14 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING JULY 3, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever, ...	124.	Measles, ...	162.
Diphtheria and croup, ...	164.	Typhoid fever, ...	21.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, July 3, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.		8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
June.																
Sunday, 27,	30.10	61	70	52	45	45	46	N. W.	W.	9	8		C.	C.		0.00
Monday, 28,	30.08	68	80	56	46	41	44	W.	S. W.	12	12		C.	C.		0.00
Tuesday, 29,	30.07	67	75	59	54	92	73	N. W.	E.	8	7		F.	O.		0.00
Wednes'y, 30,	29.76	68	79	58	96	85	90	S.	N. E.	10	10		R.	F.		1.03
July.																
Thursday, 1,	29.79	71	85	57	80	72	76	E.	N.	4	16		C.	O.		0.05
Friday, 2,	29.83	71	78	64	67	72	70	E.	S. W.	5	8		C.	O.		0.01
Saturday, 3,	30.07	66	72	60	88	94	91	W.	N. E.	5	12		O.	O.		0.00
Week, - -	29.94		77	58			70									1.09

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

MONTHLY MORTALITY

In 6 smaller towns of Massachusetts, as reported to the State Board of Health for the month of June.

TOWNS.	POPULATION.	Reported Deaths in Each.	Deaths under five years of age.	DEATHS FROM				
				Infectious Diseases.	Consumption.	Acute Lung Diseases.	Diphtheria and Croup.	Whooping-cough.
Amesbury,	9,986	4	0	..	..	1	..	..
Revere,	7,423	7	1	1	..	1	1	..
Hudson,	5,308	3	1	..	..	..	..	..
Easthampton,	4,790	1	0	..	1	..	..	..
Merrimac,	2,301	2	0	..	..	1	..	..
Norton,	1,614	2	0	1	1	..	..	1
Total of reporting towns,	31,422	19	2	2	2	3	1	1

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, July 10, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 27.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending July 10, 1897.

Deaths reported to the State Board of Health in 25 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Diphtheria and Croup.	Cerebro-spinal meningitis.
Boston,	517,732	211	71	35	25	7	10	6
Worcester,	105,050	35	16	7	4	2	..	4
Fall River,	95,919	58	46	31	1	31	..	..
Lowell,	87,193	24	24	14	4	12	..	..
Cambridge,	86,812	26	14	4	4	4	..	..
Lynn,	65,220	21	11	1	2	..	1	..
New Bedford,	62,416	36	22	14	1	12	..	..
Somerville,	57,977	16	6	4	1	1	1	2
Lawrence,	55,510	38	25	14	2	14	..	..
Springfield,	54,790	22	11	6	2	2	..	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	10	4	1	1	..	..	..
Brockton,	35,853	..	..	..	..	..	..	..
Malden,	32,894	6	1	..	..	..	..	..
Chelsea,	32,716	14	4	2	..	..	..	1
Haverhill,	31,406	12	..	2	1	..	1	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	12	2	1	3	..	..	1
Fitchburg,	28,392	8	4	2	..	1	..	..
Taunton,	27,812	12	2	..	..	..	..	..
Quincy,	22,562	..	..	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	8	2	2	..	1	..	1
Everett,	21,575	2	1	..	..	..	..	..
North Adams,	19,135	9	2	..	1	..	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	3	1	..	..	..	..	..
Medford,	15,832	5	0	..	..	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	6	1	..	..	..	..	..
Woburn,	14,449	6	2	2	..	..	1	1
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	..	..	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	2	0	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Diphtheria and Croup.	Cerebro-spinal meningitis.
Total of reporting towns,	1,541,315	602	272	142	52	87	14	16

DEATHS FROM PREVALENT DISEASES IN 25 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

One hundred and forty-two deaths were reported from the principal infectious diseases: diarrhœal diseases, 87; cerebro-spinal meningitis, 16; typhoid fever, 8; scarlet fever, 5; whooping-cough, 5; measles, 4; erysipelas, 3.

No deaths were reported from small-pox, puerperal fever and malarial fever.

There were 52 deaths from acute lung diseases; consumption, 50; and still-births, 26.

From typhoid fever: Boston, 5; New Bedford, Salem and Chelsea, 1 each. From scarlet fever: Boston, 2; Worcester, Lowell and New Bedford, 1 each. From whooping-cough: Boston and Springfield, 2 each; Haverhill, 1. From measles: Springfield, 2; Lowell and Fitchburg, 1 each. From erysipelas: Boston, 3.

Deaths under five years of age numbered 272, as compared with 159 for the preceding week.

Deaths from the principal infectious diseases numbered 142, as compared with 78 for the preceding week.

The death rates for the week were: Boston, 21.18; Worcester, 17.32; Fall River, 31.32; Lowell, 14.30; Cambridge, 15.60; Lynn, 16 74; New Bedford, 29.98; Somerville, 14.33; Lawrence, 35.60; Springfield, 20.79; Newton, 21.51; Fitchburg, 14.65; Taunton, 22.42; Quincy, ——; Pittsfield. ——; Waltham, 19.07; Everett, 4.82; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 16.42; Marlborough, ——; Newburyport, 21.08; Woburn, ——.

The total death rate for the week was 20.31, as compared with 15.32 and 16.08 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING JULY 10, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever, ...	81.	Measles.	158.
Diphtheria and croup, ...	111.	Typhoid fever, ...	12.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL	
Week ending Saturday, July 10, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 4,	30.17	68	75	57	92	88	90	W.	S. W.	2	15	O.	C.		0.00
Monday, 5,	30.01	80	94	66	82	74	78	S. W.	S.	7	8	C.	O.		0.00
Tuesday, 6,	30.00	80	90	70	75	80	78	S.	S. W.	5	12	F.	O.		0.00
Wednes'y, 7,	30.13	78	84	71	89	72	80	S. W.	S.	5	12	O.	C.		0.00
Thursday, 8,	30.06	78	88	67	81	69	75	S.	S. W.	12	12	C.	C.		0.00
Friday, 9,	29.89	83	93	68	72	71	72	S W.	S. W.	10	13	C.	C.		0.00
Saturday, 10,	30.00	68	75	60	94	97	96	N. E.	N. E.	10	12	O.	C.		0.00
Week, - -	30.04		86	66			81								

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of June.

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk,	490	53	543	Maple Syrup,	1	0	1
Butter,	24	0	24	Canned Goods,	..	..	..
Cheese,	9	0	9	Honey,	5	1	6
Lard,	3	0	3	Tea,	7	0	7
Olive Oil,	2	0	2	Coffee,	17	2	19
Vinegar,	7	8	15	Cocoa,	1	1	2
Spices,	156	34	190	Confectionery,	1	0	1
Cream of Tartar,	47	3	50	Other articles of Food and Drinks,	23	1	24
Molasses,	34	0	34	Drugs,	56	59	115
Syrups,	..	..	..				
Maple Sugar,	1	0	1				
				Totals,	884	162	1046

Percentage of adulteration, 15.5. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour, and the various other cereal products, are very rarely adulterated, and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration.

The ratio of samples of milk found to be below the standard was 9.8 per cent., as compared with 11.1 per cent. for the preceding month.

Three complaints were entered in the courts during the month for violation of the laws relative to the inspection of Food and Drugs. One of these was for violation of the Statutes relative to the sale of Milk, one of Molasses, and one of Coffee. Fines were imposed amounting to $70.

The samples of drugs found to be adulterated were Bismuth Subcarbonate, Chlorinated Lime, Compound Spirits of Ether, Distilled Water, Extract of Liquorice, Olive Oil, Red Wine, Stronger Ammonia Water, Tincture of Iodine, Tincture of Opium and White Wine.

Cities and towns from which samples of food were collected were: Boston, Fall River, Lowell, Cambridge, New Bedford, Somerville, Lawrence, Brockton, Malden, Chelsea, Newton, Taunton, Waltham, Everett, Marlborough, Newburyport, Andover, Brookline, Canton, Clinton, Hopkinton, Hyde Park, Revere and Stoneham.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, July 17, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 28.

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Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

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MORTALITY OF MASSACHUSETTS

For the Week ending July 17, 1897.

Deaths reported to the State Board of Health in 26 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Diphtheria and Croup.	Cerebro-spinal meningitis.
Boston,	517,732	181	62	32	21	14	6	5
Worcester,	105,050	36	15	12	2	10	2	..
Fall River,	95,919	76	61	46	2	45	..	..
Lowell,	87,193	39	21	17	2	15	..	1
Cambridge,	86,812	28	17	10	1	8	1	..
Lynn,	65,220	11	2	1	2	..	1	..
New Bedford,	62,416	47	35	26	2	23	2	..
Somerville,	57,977	15	4	4	..	2	..	1
Lawrence,	55,510	37	21	15	4	15	..	..
Springfield,	54,790	20	8	5	3	4	1	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	8	3	..	1	..	..	..
Brockton,	35,353	9	5	..	1	..	..	..
Malden,	32,894	5	2	2	..	..	1	1
Chelsea,	32,716	7	3	1	1	..	1	..
Haverhill,	31,406	11	2	4	1	1	..	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	..	..	..	..	..	..	..
Fitchburg,	28,392	8	2	1	2	..	1	..
Taunton,	27,812	10	5	2	..	..	..	..
Quincy,	22,562	5	3	1	1	..	..	1
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	3	0	..	1	..	..	..
Everett,	21,575	3	1	1	..	..	..	1
North Adams,	19,135	1	1	1	..	1	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	3	2	..	..	..	..	..
Medford,	15,832	6	1	..	..	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	1	0	..	..	..	..	..
Woburn,	14,449	3	1	2	..	..	1	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	..	..	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	1	1	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Diphtheria and Croup.	Cerebro-spinal meningitis.
Total of reporting towns,	1,570,739	574	278	183	47	138	17	10

DEATHS FROM PREVALENT DISEASES IN 26 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

One hundred and eighty-three deaths were reported from the principal infectious diseases: diarrhœal diseases, 138; diphtheria and croup, 17; cerebro-spinal meningitis, 10; scarlet fever, 8; typhoid fever, 4; whooping-cough, 3; erysipelas, 2; measles, 1.

No deaths were reported from small-pox, puerperal fever and malarial fever.

There were 47 deaths from consumption; acute lung diseases, 31; and still-births, 43.

Deaths under five years of age numbered 278, as compared with 272 for the preceding week.

Deaths from the principal infectious diseases numbered 183, as compared with 142 for the preceding week.

The death rates for the week were: Boston, 18.17; Worcester, 17.52; Fall River, 41.04; Lowell, 23.34; Cambridge, 16.80; Lynn, 8.77; New Bedford, 39.15; Somerville, 13.44; Lawrence, 34.66; Springfield, 18.90; Holyoke, ——; Salem, 11.53; Brockton, 13.05; Malden, 7.95; Chelsea, 11.12; Haverhill, 18.20; Gloucester, ——; Newton, ——; Fitchburg, 14.65; Taunton, 18.69; Quincy, 11.52; Pittsfield. ——; Waltham, 7.15; Everett, 7.23; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 19.70; Marlborough, ——; Newburyport, 3.51; Woburn, 10.77.

The total death rate for the week was 19.00, as compared with 20.31 and 15.32 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING JULY 17, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever, ...	56.	Measles.	103.
Diphtheria and croup, ...	89.	Typhoid fever, ...	14.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, July 17, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.		8 A. M.	8 P. M.		HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 11,	29.84	67	75	59	97	87	92	E.	S. W.	7	12		R.	O.			0.07
Monday, 12,	29.73	79	86	72	79	89	84	S. W.	S.	16	12		O.	C.			0.00
Tuesday, 13,	29.80	76	81	71	87	91	89	S.	S.	24	16		O.	R.			0.29
Wednes'y, 14,	29.81	74	77	70	78	86	82	S.	S. W.	42	13		O.	C.			0.18
Thursday, 15,	30.04	76	85	66	73	76	74	S. W.	S. W.	6	10		C.	C.			0.00
Friday, 16,	30.12	75	85	65	64	62	63	W.	S. W.	5	15		C.	C.			0.00
Saturday, 17,	30.18	78	88	68	66	83	72	N. W.	W.	3	6		O.	F.			0.00
Week, - -	29.93		82	67			79										0.54

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, July 24, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 29.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

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JAMES W. HULL, Pittsfield.
CHARLES H. PORTER, Quincy.
JULIAN A. MEAD, M.D., Watertown.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending July 24, 1897.

Deaths reported to the State Board of Health in 26 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Diphtheria and Croup.	Cerebro-spinal meningitis.
Boston,	517,732	206	95	55	15	39	11	1
Worcester,	105,050	36	25	16	..	10	1	4
Fall River,	95,919	91	69	46	8	46	..	..
Lowell,	87,193	33	19	15	1	15	..	..
Cambridge,	86,812	35	24	22	..	22	..	..
Lynn,	65,220	12	5	6	1	1	3	..
New Bedford,	62,416	33	24	20	3	19	..	..
Somerville,	57,977	..	..	..	..	..	..	..
Lawrence,	55,510	27	21	1	..	1	..	..
Springfield,	54,790	29	14	10	2	10	..	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	13	5	..	2	..	..	..
Brockton,	35,853	10	4	..	1	..	..	..
Malden,	32,894	8	3	1	..	..	..	1
Chelsea,	32,716	17	9	1	3	1	..	..
Haverhill,	31,406	9	2	2	1	1	..	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	12	6	4	1	4	..	..
Fitchburg,	28,392	9	3	3	1	2	1	..
Taunton,	27,812	16	10	8	2	8	..	..
Quincy,	22,562	..	..	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	5	2	1	..	..	1	..
Everett,	21,575	4	3	2	..	1	1	..
North Adams,	19,135	3	0	..	2	..	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	3	0	1	..	1	..	..
Medford,	15,832	3	3	2	..	2	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	4	0	1	..	..	..	..
Woburn,	14,449	2	2	1	..	1	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	11	1	..	1	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	4	0	..	1	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Diphtheria and Cronp.	Cerebro-spinal meningitis.
Total of reporting towns,	1,530,687	635	349	218	45	184	18	6

DEATHS FROM PREVALENT DISEASES IN 26 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Two hundred and eighteen deaths were reported from the principal infectious diseases: diarrhœal diseases, 184; diphtheria and croup, 18; cerebro-spinal meniugitis, 6; scarlet fever, 3; typhoid fever, 3; whooping-cough, 2; measles, 1; puerperal fever, 1.

No deaths were reported from small-pox, erysipelas and malarial fever.

From scarlet fever: Boston, Lyun and New Bedford, 1 each. From typhoid fever: Worcester, Lyun and Newburyport, 1 each. From whooping-cough: Boston, 2. From measles: Haverhill, 1. From puerperal fever: Boston, 1.

Deaths under five years of age numbered 349, as compared with 278 for the preceding week.

Deaths from the principal infectious diseases numbered 218, as compared with 183 for the preceding week.

The death rates for the week were: Boston, 20.68; Worcester, 17.82; Fall River, 49.14; Lowell, 19.66; Cambridge, 21.00; Lynn. 9.56; New Bedford, 24.99; Somerville, ——; Lawrence, 25.29; Springfield, 27.40; Holyoke, ——; Salem, 18.74; Brockton, 14.42; Maldeu, 12.64; Chelsea, 26.98; Haverhill, 14.89; Gloucester, ——; Newton, ——; Fitchburg, 16.48; Taunton, 29.90; Quiucy, ——; Pittsfield. ——; Waltham, 11.92; Everett, 9.64; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 9.88; Marlborough, ——; Newburyport, 14.05; Woburn, 7.18.

The total death rate for the week was 21.57, as compared with 19.00 and 20.31 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING JULY 24, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever, ...	56.	Measles.	85.
Diphtheria and croup, ...	68.	Typhoid fever, ...	20.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, July 24, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 18,	30.31	72	79	64	71	87	79	W.	E.	5	2	F.	O.		0.00
Monday, 19,	30.33	65	68	62	87	97	92	E.	E.	5	5	F.	O.		0.00
Tuesday, 20,	30.17	70	78	61	86	87	86	S. W.	S. W.	5	8	O.	O.		0.28
Wednes'y, 21,	30.08	74	79	70	81	80	80	S. W.	S.	12	12	O.	F.		0.00
Thursday, 22,	29.94	73	76	70	86	97	92	S.	S. W.	10	12	O.	O.		1.20
Friday, 23,	29.79	78	86	70	81	62	72	S.	W.	12	10	C.	O.		0.00
Saturday, 24,	29.63	74	83	64	81	88	86	W.	W.	7	6	O.	O.		0.65
Week, - -															

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, July 31, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 30.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

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STATE BOARD OF HEALTH.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending July 31, 1897.

Deaths reported to the State Board of Health in 24 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Diphtheria and Croup.	Cerebro-spinal meningitis.
Boston,	517,732	238	125	81	16	71	4	4
Worcester,	105,050	27	18	13	3	13	..	..
Fall River,	95,919	52	41	21	1	21	..	..
Lowell,	87,193	40	20	10	6	9	..	..
Cambridge,	86,812	54	39	30	5	28	1	..
Lynn,	65,220	12	6	3	1	2	..	1
New Bedford,	62,416	40	23	11	4	10	1	..
Somerville,	57,977	..	..	..	..	..	..	..
Lawrence,	55,510	23	16	19	2	19	..	..
Springfield,	54,790	20	8	8	..	6	1	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	8	4	1	..	1	..	..
Brockton,	35,853	..	..	..	..	..	..	..
Malden,	32,894	12	6	4	2	3	..	1
Chelsea,	32,716	15	7	1	3	1	..	..
Haverhill,	31,406	10	4	2	1	2	..	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	13	8	5	..	5	..	..
Fitchburg,	28,392	12	6	1	2	1	..	..
Taunton,	27,812	19	9	5	..	5	..	..
Quincy,	22,562	..	..	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	5	1	..	..	..	..	..
Everett,	21,575	9	5	6	..	4	1	..
North Adams,	19,135	12	9	5	1	5	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	4	0	..	1	..	..	..
Medford,	15,832	6	4	2	..	2	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	4	1	..	..	..	..	..
Woburn,	14,449	6	3	2	2	2	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	..	..	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	2	0	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Diphtheria and Croup.	Cerebro-spinal meningitis.
Total of reporting towns,	1,483,337	643	363	230	50	210	8	6

DEATHS FROM PREVALENT DISEASES IN 24 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Two hundred and thirty deaths were reported from the principal infectious diseases: diarrhœal diseases, 210; diphtheria and croup, 8; cerebro-spinal meuingitis, 6; typhoid fever, 2; scarlet fever, 2; measles, 1; whooping-cough, 1.

No deaths were reported from small-pox, puerperal fever, erysipelas and malarial fever.

There were 50 deaths from consumption; acute lung diseases, 20; and still-births, 33.

From typhoid fever: Boston and Cambridge, 1 each. From scarlet fever: Boston and Spriugfield, 1 each. From measles: Lowell, 1. From whooping-cough: Everett, 1.

Deaths under five years of age numbered 363, as compared with 349 for the preceding week.

Deaths from the principal infectious diseases numbered 230, as compared with 218 for the preceding week.

The death rates for the week were: Boston, 23.89; Worcester, 13.36; Fall River, 28.08; Lowell, 23.84; Cambridge, 32.40; Lynn, 9.56; New Bedford, 33.33; Somerville, ——; Lawrence, 21.55; Springfield, 18.90; Holyoke, ——; Salem, 11.53; Brockton, ——; Malden, 18.96; Chelsea, 23.83; Haverhill, 16.55; Gloucester, ——; Newton, ——; Fitchburg, 23.30; Taunton, 35.51; Quincy, ——; Pittsfield. ——; Waltham, 11.92; Everett, 21.69; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 19.70; Marlborough, ——; Newburyport, ——; Woburn, ——.

The total death rate for the week was 22.53, as compared with 21.57 and 19.00 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING JULY 31, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever, ...	40.	Measles.	54.
Diphtheria and croup, ...	50.	Typhoid fever, ...	33.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, July 31, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 25,	29.85	67	72	62	79	92	86	N.	E.	6	12	O.	O.		0.01
Monday, 26,	30.08	62	65	59	73	80	76	N. E.	N. E.	14	10	O.	O.		T.
Tuesday, 27,	30.12	59	63	55	84	78	81	N. E.	E.	14	15	O.	O.		0.00
Wednes'y, 28,	30.02	61	63	59	81	93	87	N. E.	N. E.	17	17	O.	O.		T.
Thursday, 29,	29.83	60	64	57	100	92	96	N.	N.	16	9	R.	O.		1.48
Friday, 30,	29.90	70	79	60	78	65	72	W.	W.	10	8	C.	C.		0.00
Saturday, 31,	29.87	76	85	66	74	62	68	W.	S. W.	9	12	O.	O.		T.
Week, - -	29.95		70	59			81								1.49

* O., Cloudy: C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Aug. 7, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 31.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

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MORTALITY OF MASSACHUSETTS

For the Week ending Aug. 7, 1897.

Deaths reported to the State Board of Health in 26 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

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CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Cerebro-spinal meningitis.
Boston,	517,732	229	106	64	20	52	2	5
Worcester,	105,050	43	26	19	1	16	1	2
Fall River,	95,919	54	36	19	3	17	2	..
Lowell,	87,193	37	17	11	..	10	1	..
Cambridge,	86,812	42	22	19	3	18	..	..
Lynn,	65,220	21	9	6	3	4	..	1
New Bedford,	62,416	40	27	19	3	18	..	..
Somerville,	57,977	17	11	7	..	6	1	..
Lawrence,	55,510	24	15	14	2	13	1	..
Springfield,	54,790	22	9	10	..	9	..	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	16	4	3	..	2	..	..
Brockton,	35,853	6	4	3	1	3	..	..
Malden,	32,894	7	4	3	..	3	..	..
Chelsea,	32,716	12	6	4	..	4	..	..
Haverhill,	31,406	14	7	2	2	2	..	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	12	6	5	1	4	..	..
Fitchburg,	28,392	8	7	..	1	..	..	..
Taunton,	27,812	14	7	5	2	5	..	..
Quincy,	22,562	..	..	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	8	1	..	..	..	..	..
Everett,	21,575	6	2	4	..	3	1	..
North Adams,	19,135	13	12	10	..	10	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	3	1	..	1	..	..	..
Medford,	15,832	4	3	..	..	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	4	2	..	1	..	..	..
Woburn,	14,449	..	..	..	..	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	7	5	4	..	4	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	3	0	1	1	..	1	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Cerebro-spinal meningitis.
Total of reporting towns,	1,537,261	666	339	233	45	203	10	8

DEATHS FROM PREVALENT DISEASES IN 26 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Two hundred and thirty deaths were reported from the principal infectious diseases: diarrhœal diseases, 203; typhoid fever, 10; cerebro-spinal meningitis, 8; diphtheria and croup, 7; whooping-cough, 3; puerperal fever, 1.

No deaths were reported from small-pox, measles, erysipelas, scarlet fever and malarial fever.

There were 45 deaths from consumption; acute lung diseases, 18; and still-births, 37.

From diphtheria and croup: Boston, 2; Lynn, New Bedford, Springfield, Salem and Newton, 1 each. From whooping-cough: Boston, 2; Cambridge, 1. From puerperal fever, Boston, 1.

Deaths under five years of age numbered 339, as compared with 363 for the preceding week.

Deaths from the principal infectious diseases numbered 233, as compared with 230 for the preceding week.

The death rates for the week were: Boston, 22.39; Worcester, 21.28; Fall River, 29.16; Lowell, 21.55; Cambridge, 25.20; Lynn, 16.74; New Bedford, 33.32; Somerville, 15.23; Lawrence, 22.48; Springfield, 20.79; Holyoke, ——; Salem, 23.07; Brockton, 8.70; Malden, 11.06; Chelsea, 19.06; Haverhill, 22.97; Gloucester, ——; Newton, 21.56; Fitchburg, 16.65; Taunton, 26.16; Quincy, ——; Pittsfield. ——; Waltham, 19.07; Everett, 14.46; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 13.13; Marlborough, ——; Newburyport, 14.05; Woburn, ——.

The total death rate for the week was 22.53, as compared with 22.53 and 21.57 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING AUGUST 7, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever, ...	54.	Measles, ...	51.
Diphtheria and croup, ...	84.	Typhoid fever, ...	35.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Aug. 7, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 1,	29.89	68	74	63	72	84	78	N.	E.	8	3	C.	F.		0.00
Monday, 2,	30.02	63	73	63	84	89	86	N. W.	E.	8	4	C.	C.		0.00
Tuesday, 3,	30.10	73	85	61	90	84	87	S. W.	S. W.	8	16	O.	C.		0.00
Wednes'y, 4,	30.08	76	84	67	77	91	84	S. W.	N.	12	4	C.	O.		0.58
Thursday, 5,	30.11	65	70	60	96	52	74	N. E.	E.	12	2	R.	C.		0.56
Friday, 6,	30.10	70	82	59	54	56	55	N.	N. W.	10	7	C.	C.		0.00
Saturday, 7,	30.15	73	83	63	54	67	60	N. W.	S.	7	7	C.	C.		0.00
Week, - -	30.07		79	62			75								1.14

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

MONTHLY MORTALITY

In 5 smaller towns of Massachusetts, as reported to the State Board of Health for the month of July.

TOWNS.	POPULATION.	Reported Deaths in Each.	Deaths under five years of age.	DEATHS FROM				
				Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Amesbury,	9,986	7	4	4	..	3	1	..
Revere,	7,423	14	3	2	1	..	..	1
Hudson,	5,308	5	2	..	3	..	..	..
Easthampton,	4,790	2	0	..	..	..	..	..
Norton,	1,614	4	0	..	..	..	..	..
Total of reporting towns,	29,121	32	9	6	4	3	1	1

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Aug. 14, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 32.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Aug. 14, 1897.

Deaths reported to the State Board of Health in 25 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	517,732	242	16	75	14	57	6	6
Worcester,	105,050	42	26	16	3	13	..	1
Fall River,	95,919	62	44	31	4	30	1	..
Lowell,	87,193	45	25	17	1	15	1	..
Cambridge,	86,812	38	27	20	4	18	..	1
Lynn,	65,220	19	10	5	2	4	..	..
New Bedford,	62,416	14	11	8	1	8	..	..
Somerville,	57,977	21	7	5	4	3	..	..
Lawrence,	55,510	23	14	7	2	7	..	..
Springfield,	54,790	19	10	9	1	8	1	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	24	13	11	1	9	..	..
Brockton,	35,853	..	..	..	..	..	..	..
Malden,	32,894	19	12	8	2	8	..	..
Chelsea,	32,716	7	2	2	..	2	..	..
Haverhill,	31,406	3	1	1	1	1	..	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	18	11	5	..	5	..	..
Fitchburg,	28,392	9	4	2	..	2	..	..
Taunton,	27,812	16	9	8	2	8	..	..
Quincy,	22,562	6	3	3	..	3	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	5	1	..	2	..	..	..
Everett,	21,575	..	..	..	..	..	..	..
North Adams,	19,135	12	6	2	1	2	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	3	0	..	..	..	..	..
Medford,	15,832	9	6	7	..	7	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	4	1	1	..	1	..	..
Woburn,	14,449	6	3	..	1	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	..	..	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	2	1	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,542,302	668	263	243	46	211	9	8

DEATHS FROM PREVALENT DISEASES IN 25 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Two hundred and forty-three deaths were reported from the principal infectious diseases: diarrhœal diseases, 211; typhoid fever, 9; diphtheria and croup, 8; cerebro-spinal meningitis, 8; whooping-cough, 3; scarlet-fever, 2; erysipelas, 1; puerperal fever, 1.

No deaths were reported from small-pox, measles and malarial fever.

There were 46 deaths from consumption; acute lung diseases, 20; and still-births, 29.

From cerebro-spinal meningitis: Boston, Worcester and Somerville, 2 each; Lowell and Salem, 1 each. From whooping-cough: Boston, Cambridge and Lynn, 1 each. From scarlet-fever: Boston, 2. From erysipelas: Salem, 1. From puerperal fever: Boston, 1.

Deaths under five years of age numbered 263, as compared with 222 for the preceding week.

Deaths from the principal infectious diseases numbered 243, as compared with 339 for the preceding week.

The death rates for the week were: Boston, 24.29; Worcester, 20.79; Fall River, 33.48; Lowell, 26.82; Cambridge, 22.80; Lynn, 15.14; New Bedford, 12.76; Somerville, 18.81; Lawrence, 17.80; Springfield, 17.95; Holyoke, ——; Salem, 34.60; Brockton, ——; Malden, 30.02; Chelsea, 11.12; Haverhill, 4.96; Gloucester, ——; Newton, 32.27; Fitchburg, 16.48; Taunton, 29.90; Quincy, 13.83; Pittsfield, ——; Waltham, 11.92; Everett, ——; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 32.55; Marlborough, ——; Newburyport, 14.05; Woburn, 21.54.

The total death rate for the week was 22.55, as compared with 22.53 and 22.53 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING AUGUST 14, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever,	59.	Measles,	29.
Diphtheria and croup,	81.	Typhoid fever,	52.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Aug. 14, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 8,	30.08	74	84	63	70	65	68	W.	S. W.	5	10	O.	C.		0.00
Monday, 9,	29.94	72	80	64	72	63	68	W.	N. E.	8	3	O.	F.		0.00
Tuesday, 10,	29.89	68	73	63	67	72	70	N. W.	S. E.	4	8	C.	O.		0.01
Wednes'y, 11,	29.68	67	70	64	95	95	95	E.	E.	9	7	R.	O.		0.04
Thursday, 12,	29.75	72	81	63	71	59	65	W.	W.	12	12	C.	C.		0.00
Friday, 13,	30.00	68	77	59	62	57	60	W.	W.	10	9	C.	C.		0.00
Saturday, 14,	30.02	74	86	63	60	68	64	W.	S. W.	10	10	C.	C.		0.00
Week, - -	29.91	71	79	63	71	68	70								0.05

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Aug. 21, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 33.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Aug. 21, 1897.

Deaths reported to the State Board of Health in 26 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	517,732	212	92	53	17	43	4	5
Worcester,	105,050	47	26	17	3	16	..	..
Fall River,	95,919	54	36	16	2	15	..	..
Lowell,	87,193	46	32	25	4	24	..	..
Cambridge,	86,812	30	16	14	4	13	..	..
Lynn,	65,220	29	19	18	1	10	3	2
New Bedford,	62,416	18	8	7	2	5	..	1
Somerville,	57,977	24	14	11	..	8	1	2
Lawrence,	55,510	24	20	14	2	14	..	..
Springfield,	54,790	18	7	6	1	5	..	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	25	12	4	1	4	..	..
Brockton,	35,853	10	6	5	1	4	..	1
Malden,	32,894	16	10	11	1	10	..	..
Chelsea,	32,716	10	3	2	2	1	1	..
Haverhill,	31,406	7	2	..	2	..	..	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	7	3	2	..	2	..	..
Fitchburg,	28,392	8	7	4	..	4	..	..
Taunton,	27,812	16	8	4	..	4	..	..
Quincy,	22,562	..	..	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	4	1	..	1	..	..	..
Everett,	21,575	11	6	3	..	3	..	..
North Adams,	19,135	9	5	3	..	3	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	..	..	..	..	..	..	..
Medford,	15,832	3	2	3	..	2	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	8	2	3	2	2	1	..
Woburn,	14,449	8	4	1	2	1	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	4	2	2	1	2	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	5	3	1	..	1	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,572,500	653	346	219	49	196	10	11

DEATHS FROM PREVALENT DISEASES IN 26 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Two hundred and nineteen deaths were reported from the principal infectious diseases: diarrhœal diseases, 196; diphtheria and croup, 11; typhoid fever, 10; cerebro-spinal meningitis, 6; whooping-cough, 3; scarlet-fever, 2; malarial fever, 1.

No deaths were reported from small-pox, measles, erysipelas and puerperal fever.

There were 49 deaths from consumption; acute lung diseases, 19; and still-births, 30.

From cerebro-spinal meningitis: Lynn, 3; Worcester, Springfield and Malden, 1 each. From whooping-cough: Boston, Fall River and Lowell, 1 each. From scarlet-fever: Cambridge and New Bedford, 1 each. From malarial fever: Fall River, 1.

Deaths under five years of age numbered 346, as compared with 263 for the preceding week.

Deaths from the principal infectious diseases numbered 219, as compared with 243 for the preceding week.

The death rates for the week were: Boston, 21.28; Worcester, 23.26; Fall River, 29.16; Lowell, 27.41; Cambridge, 18.00; Lynn, 23.12; New Bedford, 14.99; Somerville, 21.50; Lawrence, 22.48; Springfield, 17.05; Holyoke, ——; Salem, 36.50; Brockton, 14.50; Malden, 25.28; Chelsea, 15.89; Haverhill, 11.58; Gloucester, ——; Newton, 12.55; Fitchburg, 14.65; Taunton, 29.90; Quincy, ——; Pittsfield. ——; Waltham, 9.53; Everett, 26.51; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 9.85; Marlborough, ——; Newburyport, 28.11; Woburn, 28.72.

The total death rate for the week was 21.95, as compared with 22.55 and 22.53 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING AUGUST 21, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever, ...	63.	Measles.	10.
Diphtheria and croup, ...	61.	Typhoid fever, ...	52.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Aug. 21, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 15,	29.92	78	84	73	86	84	85	S.	S. W.	8	13	O.	O.		0.00
Monday, 16,	29.76	73	76	70	90	92	91	S.	S.	10	15	O.	C.		0.42
Tuesday, 17,	29.80	69	76	62	78	87	82	W.	W.	14	12	C.	C.		0.00
Wednes'y, 18,	30.05	68	77	59	69	79	74	N.	S.	4	8	F.	R.		0.02
Thursday, 19,	29.97	67	74	60	96	88	92	W.	S.	2	7	O.	O.		0.43
Friday, 20,	30.00	68	76	59	81	60	70	N. W.	W.	12	10	F.	C.		0.00
Saturday, 21,	30.14	65	77	53	67	74	60	W.	S.	8	9	O.	C.		0.00
Week, - -	29.97		77	62			79								0.87

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of July.

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk,	473	64	537	Maple Syrup,	..	..	..
Butter,	25	0	25	Canned Goods,	4	2	6
Cheese,	7	0	7	Honey,	1	0	1
Lard,	2	0	2	Tea,	8	1	9
Olive Oil,	0	1	1	Coffee,	15	0	15
Vinegar,	10	1	11	Cocoa,	1	1	2
Spices,	101	15	116	Confectionery,	1	0	1
Cream of Tartar,	25	0	25	Other articles of Food and Drinks,	14	0	14
Molasses,	22	1	23	Drugs,	59	35	94
Syrups,	..	..	..				
Maple Sugar,	..	..	..				
				Totals,	768	121	889

Percentage of adulteration, 13.6. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour, and the various other cereal products, are very rarely adulterated, and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration.

The ratio of samples of milk found to be below the standard was 11.9 per cent., as compared with 11.1 per cent. for the preceding month.

Four complaints were entered in the courts during the month for violation of the laws relative to the inspection of Food and Drugs. Three of these was for violation of the Statutes relative to the sale of Milk and one of Coffee. Fines were imposed amounting to $225.

The samples of drugs found to be adulterated were Bismuth Subnitrate, Chlorinated Lime, Extract of Liquorice, Diluted Hydrobromicum, Iron and Strychnine Citrate, Tincture of Opium and Red Wine.

Cities and towns from which samples of food were collected were: Boston, Fall River, Lowell, Cambridge, New Bedford, Somerville, Salem, Malden, Chelsea, Gloucester, Newton, Fitchburg, Quincy, Waltham, Andover, Brookline, Dedham, Hingham, Hull, Melrose, Milford, Milton, Nantucket, Natick, Watertown and Winchester.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Aug. 28, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 34.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

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CHARLES H. PORTER, Quincy.
JULIAN A. MEAD, M.D., Watertown.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Aug. 28, 1897.

Deaths reported to the State Board of Health in 26 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	517,732	244	88	57	26	38	10	6
Worcester,	105,050	29	14	8	..	7	..	1
Fall River,	95,919	38	24	15	2	13	..	1
Lowell,	87,193	47	25	20	3	20	..	..
Cambridge,	86,812	33	19	16	8	12	..	2
Lynn,	65,220	17	8	3	3	..	2	..
New Bedford,	62,416	31	18	15	3	14	1	..
Somerville,	57,977	14	9	5	..	3	..	1
Lawrence,	55,510	29	14	8	3	7	1	..
Springfield,	54,790	23	7	9	3	6	2	1
Holyoke,	42,364	1	0	1	..	..	..	1
Salem,	36,062	10	6	4	..	4	..	..
Brockton,	35,853	8	3	2	..	2	..	..
Malden,	32,894	15	1	9	2	7	..	..
Chelsea,	32,716	17	7	6	1	6	..	..
Haverhill,	31,406	10	4	3	2	3	..	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	11	7	5	1	4	1	..
Fitchburg,	28,392	9	5	3	..	3	..	..
Taunton,	27,812	6	5	3	1	2	..	1
Quincy,	22,562	..	..	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	8	3	1	3	1	..	..
Everett,	21,575	9	4	2	1	1	..	..
North Adams,	19,135	13	10	8	1	8	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	2	1	..	..	..	..	..
Medford,	15,832	8	3	4	1	4	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	4	2	..	..	..	..	..
Woburn,	14,449	..	..	..	..	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	..	..	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	2	2	2	..	2	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,605,082	638	289	205	64	167	17	14

DEATHS FROM PREVALENT DISEASES IN 26 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Two hundred and five deaths were reported from the principal infectious diseases: diarrhœal diseases, 167; typhoid fever, 17; diphtheria and croup, 14; cerebro-spinal meningitis, 4; whooping-cough, 4; scarlet-fever, 2; measles, 1.

No deaths were reported from small-pox, malarial fever, erysipelas and puerperal fever.

There were 64 deaths from consumption; acute lung diseases, 18; and still-births, 31.

From cerebro-spinal meningitis: Malden, 2; Lynn and Somerville, 1 each. From whooping-cough: Cambridge, 2; Boston and Everett, 1 each. From scarlet-fever: Boston, 2. From measles Fall River, 1.

Deaths under five years of age numbered 289, as compared with 346 for the preceding week.

Deaths from the principal infectious diseases numbered 205, as compared with 219 for the preceding week.

The death rates for the week were: Boston, 24.49; Worcester, 14.35; Fall River, 20.52; Lowell, 28.01; Cambridge, 19.80; Lynn, 13.55; New Bedford, 25.82; Somerville, 12.54; Lawrence, 27.17; Springfield, 21.73; Holyoke, ——; Salem, 14.42; Brockton, 11.60; Malden, 23.70; Chelsea, 27.01; Haverhill, 16.55; Gloucester, ——; Newton, 19.72; Fitchburg, 16.48; Taunton, 29.90; Quincy, ——; Pittsfield, ——; Waltham, 19.07; Everett, 21.69; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 26.27; Newburyport, 13.44; Woburn, ——.

The total death rate for the week was 20.67, as compared with 21.95 and 22.55 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING AUGUST 28, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

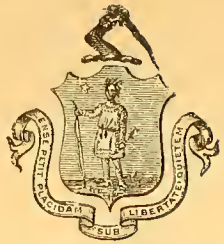
Scarlet-fever, ...	72.	Measles, ...	12.
Diphtheria and croup, ...	73.	Typhoid fever, ...	79.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Aug. 28, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.		8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 22,	29.94	72	80	64	83	92	88	S. W.	S. W.	14	11		O.	O.		0.44
Monday, 23,	30.06	62	66	58	92	89	90	N. E.	E.	10	9		O.	O.		0.00
Tuesday, 24,	29.88	60	63	56	87	96	92	E.	N. W.	15	9		O.	O.		1.45
Wednes'y, 25,	29.88	66	76	56	87	94	90	S.	S.	5	11		C.	C.		0.00
Thursday, 26,	29.99	71	79	63	75	68	72	W.	N. W.	10	5		F.	C.		0.00
Friday, 27,	29.96	68	77	59	66	84	75	E.	S.	3	9		C.	C.		0.00
Saturday, 28,	29.91	74	83	66	85	77	81	W.	W.	8	8		F.	C.		0.00
Week, - -	29.95		75	60			84									1.89

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.



Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Sept. 4, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 35.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

HENRY P. WALCOTT, M.D., Cambridge, *Chairman.*
GERARD C. TOBEY, Esq., Wareham.
FRANK W. DRAPER, M.D., Boston.
HIRAM F. MILLS, C.E., Lawrence.
JAMES W. HULL, Pittsfield.
CHARLES H. PORTER, Quincy.
JULIAN A. MEAD, M.D., Watertown.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Sept. 4, 1897.

Deaths reported to the State Board of Health in 23 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued. to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	517,732	224	108	52	17	32	6	8
Worcester,	105,050	38	16	9	2	8	..	..
Fall River,	95,919	48	26	19	3	15	4	..
Lowell,	87,193	45	33	15	..	15	..	..
Cambridge,	86,812	25	9	7	4	6	..	..
Lynn,	65,220	33	16	13	3	10	..	..
New Bedford,	62,416	26	16	11	2	9	2	..
Somerville,	57,977	17	8	7	2	5	1	1
Lawrence,	55,510	21	12	8	1	5	..	2
Springfield,	54,790	17	13	10	2	9	1	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	..	..	..	..	..	..	..
Brockton,	35,853	..	..	..	..	..	..	..
Malden,	32,894	11	4	3	1	1	..	1
Chelsea,	32,716	10	5	2	..	2	..	..
Haverhill,	31,406	17	7	1	3	1	..	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	8	2	1	..	1	..	..
Fitchburg,	28,392	10	6	3	..	2	..	1
Taunton,	27,812	8	3	2	..	1	..	1
Quincy,	22,562	..	..	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	7	3	3	..	3	..	..
Everett,	21,575	7	6	4	1	3	..	..
North Adams,	19,135	8	4	4	1	3	1	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	4	2	..	..	..	..	..
Medford,	15,832	3	1	1	..	1	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	9	3	2	..	2	..	..
Woburn,	14,449	..	..	..	..	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	..	..	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	..	..	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,480,141	596	303	177	42	134	15	14

DEATHS FROM PREVALENT DISEASES IN 22 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

One hundred and seventy-five deaths were reported from the principal infectious diseases: diarrhœal diseases, 134; typhoid fever, 15; diphtheria and croup, 14; cerebro-spiual meningitis, 6; whooping-cough, 4; scarlet-fever, 2.

No deaths were reported from small-pox, measles, erysipelas, malarial fever and puerperal fever.

There were 43 deaths from consumptiou; acute lung diseases, 35; and still-births, 35.

From cerebro-spiual meningitis: Bostou and Lyun, 2 each; Worcester and Everett, 1 each. From whoopiug-cough: Bostou, 2; Cambridge and Lynn, 1 each. From scarlet-fever: Bostou and Lawrence, 1 each.

Deaths under five years of age numbered 303, as compared with 289 for the prece diug week.

Deaths from the principal infectious diseases numbered 177, as compared with 205 for the preceding week.

The death rates for the week were: Boston, 24.49; Worcester, 18.81; Fall River, 25.92; Lowell, 26.20; Cambridge, 15.00; Lyun, 26 31; New Bedford, 21.65; Somerville, 15.23; Lawrence, 19.67; Springfield, 24.51; Holyoke, ——; Salem, ——; Brockton, ——; Malden, 20.35; Chelsea, 15.89; Haverhill, 28.13; Gloucester, ——; Newton, 14.34; Fitchburg, 18.32; Taunton, 14.95; Quincy, ——; Pittsfield. ——; Waltham, 16.68; Everett, 16.87; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, ——; Marlborough, ——; Newburyport, 31.64; Woburn, ——.

The total death rate for the week was 20.94, as compared with 20.67 and 21.95 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING SEPT. 4, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever,	59.	Measles.	16.
Diphtheria and croup,	90.	Typhoid fever,	102.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.		DIRECTION OF WIND.			VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Sept. 4, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.		8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
August.																
Sunday, 29,	30.04	68	74	62	67	74	70	N.	S.	6	12		C.	C.		0.00
Monday, 30,	29.92	72	80	64	76	70	70	S. W.	N.	14	9		F.	C.		0.00
Tuesday, 31,	30.04	68	77	59	68	58	63	N. W.	W.	8	8		O.	C.		0.00
September.																
Wednes'y, 1,	30.10	68	79	58	59	63	61	W.	S. W.	7	6		C.	C.		0.00
Thursday, 2,	30.08	65	68	62	96	92	94	N. E.	N. W.	4	4		R.	C.		0.55
Friday, 3,	30.28	60	66	54	71	68	70	N.	E.	14	2		C.	F.		0.00
Saturday, 4,	30.28	59	65	53	69	71	70	N.	S.	4	7		C.	O.		0.00
Week, - -	30.10		73	59			71									0.55

* O., Clondy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Sept. 11, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 36.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

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STATE BOARD OF HEALTH.

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CHARLES H. PORTER, Quincy.
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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Sept. 11, 1897.

Deaths reported to the State Board of Health in 23 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Cerebro-Spinal Meningitis.
Boston,	517,732	217	96	52	24	31	4	10
Worcester,	105,050	33	20	8	5	6	2	..
Fall River,	95,919	41	29	13	..	9	..	3
Lowell,	87,193	39	22	11	5	11	..	..
Cambridge,	86,812	26	13	8	3	7	..	..
Lynn,	65,220	..	..	..	..	..	..	..
New Bedford,	62,416	27	16	8	1	6	..	2
Somerville,	57,977	17	6	4	1	2	2	..
Lawrence,	55,510	25	16	8	2	6	..	..
Springfield,	54,790	17	8	3	2	2	1	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	14	5	3	..	3	..	..
Brockton,	35,853	..	..	..	..	..	..	..
Malden,	32,894	11	6	4	..	2	1	..
Chelsea,	32,716	14	5	3	4	3	..	..
Haverhill,	31,406	9	1	2	1	1	..	1
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	8	2	1	..	1	..	..
Fitchburg,	28,392	8	2	2	..	1	..	..
Taunton,	27,812	20	10	4	4	3	..	..
Quincy,	22,562	..	..	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	5	2	1	1	1	..	..
Everett,	21,575	7	6	1	2	..	..	..
North Adams,	19,135	4	1	..	..	..	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	..	..	..	..	..	..	..
Medford,	15,832	4	3	..	1	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	3	0	..	..	..	..	..
Woburn,	14,449	..	..	..	..	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	11	6	4	2	4	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	1	1	1	..	1	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Cerebro-Spinal Meningitis.	Typhoid Fever.
Total of reporting towns,	1,440,185	561	276	141	58	100	10	16

DEATHS FROM PREVALENT DISEASES IN 23 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

One hundred and forty-one deaths were reported from the principal infectious diseases: diarrhœal diseases, 100; typhoid fever, 16; cerebro-spinal meningitis, 10; scarlet-fever, 8; diphtheria and croup, 4; whooping-cough, 3.

No deaths were reported from small-pox, measles and puerperal fever.

There were 58 deaths from consumption; acute lung diseases, 34; and still-births, 35.

From scarlet-fever: Boston 3, Lawrence 2, Taunton 1. From diphtheria and croup: Boston 3, Malden 1. From whooping-cough: Boston, Fitchburg and North Adams 1 each.

Deaths under five years of age numbered 276, as compared with 303 for the preceding week.

Deaths from the principal infectious diseases numbered 141, as compared with 177 for the preceding week.

The death rates for the week were: Boston, 21.78; Worcester, 16.33; Fall River, 22.14; Lowell, 23.24; Cambridge, 15.60; Lynn, ——; New Bedford, 32.49; Somerville, 15.23; Lawrence, 23.42; Springfield, 16.16; Holyoke, ——; Salem, 20.18; Brockton, ——; Malden, 17.38; Chelsea, 21.24; Haverhill, 14.89; Gloucester, ——; Newton, 14.34; Fitchburg, 14.95; Taunton, 37.38; Quincy, ——; Pittsfield. ——; Waltham, 11.92; Everett, 16.87; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 13.13; Marlborough, ——; Newburyport, 10.54; Woburn, ——.

The total death rate for the week was 20.25, as compared with 20.94 and 20.67 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING SEPT. 11, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever, ...	50.	Measles.	4.
Diphtheria and croup, ...	69.	Typhoid fever, ...	70.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Sept. 11, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.		8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 5,	30.21	70	83	56	56	82	69	W.	S. W.	8	11		C.	C.		0.00
Monday, 6,	30.14	76	89	62	60	65	62	W.	N. W.	8	6		C.	C.		0.00
Tuesday, 7,	30.36	68	74	62	62	69	66	N. E.	S. E.	15	5		F.	O.		0.00
Wednes'y, 8,	30.19	68	76	60	55	85	70	S.	S. W.	7	14		C.	C.		0.00
Thursday, 9,	30.06	78	90	65	66	74	70	W.	W.	11	8		C.	C.		0.00
Friday, 10,	30.04	83	94	72	66	69	68	W.	W.	10	10		C.	F.		0.00
Saturday, 11,	30.16	72	87	58	66	87	76	N. W.	N. W.	8	6		C.	C.		0.11
Week, - -	30.16		85	62			70									0.11

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examiuations of Food and Drugs by the State Board of Health in the month of August.

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk, . . .	456	80	536	Maple Syrup, . .	..	..	..
Butter, . . .	38	5	43	Canned Goods, .	11	1	12
Cheese, . . .	..	..	..	Houey, . . .	..	1	1
Lard, . . .	..	..	..	Tea, . . .	7	..	7
Olive Oil, . . .	..	..	..	Coffee, . . .	23	3	26
Vinegar, . . .	10	0	10	Cocoa, . . .	..	1	1
Spices, . . .	159	32	191	Confectionery, .	..	..	..
Cream of Tartar, .	39	0	39	Other articles of Food and Drinks,	8	4	12
Molasses, . . .	37	1	38	Drugs, . . .	57	18	75
Syrups, . . .	..	..	..				
Maple Sugar, . .	..	..	..				
				Totals, . .	846	146	992

Percentage of adulteration, 17.2. The actual ratio of adulteration is very much less than this, since it is ouly suspicious articles of food to which the atteution of the Board is directed. Certain staple products, such as sugar, flour, and the various other cereal products, are very rarely adulterated, and reqnire but little inspection. The work of the Board is therefore mainly devoted to the inspection of snch articles as it has found, by several years of experience, to be especially liable to adulteration.

The ratio of samples of milk found to be below the staudard was 14.9 per cent., as compared with 11.9 per cent. for the preceding month.

Four complaints were entered in the courts duriug the month for violation of the laws relative to the inspection of Food and Drugs. Two of these was for violation of the Statutes relative to the sale of Oleomargariue, Coffee oue and Mustard one. Fines were imposed amountiug to $315.

The samples of drugs found to be adulterated were Bismuth Subnitrate, Distilled Water. Olive Oil aud Tincture of Iodine.

Two samples of lime juice marked "Santiago West Iudian Lime Juice, Triple Refined," contaiued no lime juice whatever, but cousisted of a mixture of hydrochloric and salicylic acids. Six grains of salicylic acid were preseut in one aud one-half pints of the solution.

Cities and towns from which samples of food were collected: Boston, Lowell, Cambridge, Somerville, New Bedford, Lawrence, Maldeu, Chelsea, Haverhill, Gloucester, Newton, Quincy, Everett, Medford, Marlborough, Woburn, Amherst, Brookline, Cohasset, Dedham, Hull, Milford, Palmer, Plymouth, Proviucetown, Revere, Stoueham, Stonghton, Watertown, Westborough, Wiuchester and Wiuthrop.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Sept. 18, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 37.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Sept. 18, 1897.

Deaths reported to the State Board of Health in 25 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from Principal Infectious Diseases.	Deaths from Consumption.	Deaths from Diarrhœal Diseases.	Deaths from Typhoid Fever.	Deaths from Diphtheria and Croup.
Boston,	517,732	217	76	36	25	20	7	4
Worcester,	105,050	35	11	9	5	7	..	2
Fall River,	95,919	49	31	21	2	18	1	1
Lowell,	87,193	42	22	14	5	12	1	..
Cambridge,	86,812	30	19	15	3	12	..	2
Lynn,	65,220	14	4	2	2	1	..	..
New Bedford,	62,416	23	12	5	1	1	2	2
Somerville,	57,977	16	9	5	1	2	1	2
Lawrence,	55,510	21	11	..	2	..	..	..
Springfield,	54,790	17	4	6	1	3	2	1
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	11	3	2	..	2	..	..
Brockton,	35,853	..	..	..	..	..	..	..
Malden,	32,894	16	4	3	3	1	..	1
Chelsea,	32,716	13	2	2	..	2	..	..
Haverhill,	31,406	13	6	1	2	1	..	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	8	3	2	1	2	..	..
Fitchburg,	28,392	8	6	2	..	1	..	..
Taunton,	27,812	8	1	..	1	..	..	..
Quincy,	22,562	7	3	4	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	8	3	2	2	2	..	..
Everett,	21,575	2	0	..	..	..	..	..
North Adams,	19,135	6	3	..	..	..	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	..	..	..	..	..	..	..
Medford,	15,832	6	4	..	..	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	1	0	..	..	..	..	..
Woburn,	14,449	4	1	1	1	1	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	..	..	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	2	1	1	1	1	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,547,712	577	239	133	59	93	14	15

DEATHS FROM PREVALENT DISEASES IN 25 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

One hundred and thirty-three deaths were reported from the principal infectious diseases: diarrhœal diseases, 93; diphtheria and croup, 15; typhoid fever, 14; cerebro-spinal meningitis, 7; scarlet-fever, 3; whooping-cough, 1.

No deaths were reported from small-pox, measles, erysipelas, puerperal fever and malarial fever.

There were 59 deaths from consumption; acute lung diseases, 25; and still-births, 53.

From cerebro-spinal meningitis: Boston 4, Lynn, Malden and Fitchburg 1 each. From scarlet-fever: Fall River, Lowell and Cambridge 1 each. From whooping-cough: Boston 1.

Deaths under five years of age numbered 239, as compared with 270 for the preceding week.

Deaths from the principal infectious diseases numbered 133, as compared with 141 for the preceding week.

The death rates for the week were: Boston, 21.78; Worcester, 17.33; Fall River, 26.46; Lowell, 25.03; Cambridge, 18.00; Lynn, 11.16; New Bedford, 19.15; Somerville, 14.33; Lawrence, 19.67; Springfield, 16.06; Holyoke, ——; Salem, 15.86; Brockton,——; Malden, 25.28; Chelsea, 20.65; Haverhill, 22.11; Gloucester, ——; Newton, 14.34; Fitchburg, 14.65; Taunton, 14.95; Quincy, 16.13; Pittsfield. ——; Waltham, 19.07; Everett, 4.82; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 20.11; Newburyport, 3.51; Woburn, ——.

The total death rate for the week was 19.32, as compared with 20.25 and 20.94 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING SEPT. 18, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever, ...	53.	Measles.	10.
Diphtheria and croup, ...	112.	Typhoid fever, ...	61.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.		DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Sept. 18, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 12,	30.28	58	62	53	78	75	76	N. E.	S.	12	10	C.	C.		0.00
Monday, 13,	29.95	66	74	57	90	88	89	S. W.	W.	12	12	O.	C.		0.18
Tuesday, 14,	30.12	62	70	55	81	76	78	N. W.	N. W.	16	8	C.	C.		0.00
Wednes'y, 15,	30.22	60	70	51	77	64	70	N.	W.	7	5	C.	C.		0.00
Thursday, 16,	30.00	62	71	54	79	90	84	N. W.	N. E.	15	5	C.	R.		T.
Friday, 17,	29.80	62	70	54	96	72	84	N.	N W.	5	12	O.	C.		0.11
Saturday, 18,	29.98	56	64	49	73	71	72	N. W.	S. W.	12	8	C.	C.		0.00
Week, - -	30.05		69	53			79								0.29

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Sept. 25, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 38.

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J[illegible]ULL, Pittsfield.
[illegible]. P[illegible]TER, Quincy.
[illegible]. M[illegible], M.D., Watertown.

[illegible]EL W[illegible]BBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Sept. 25, 1897.

Deaths reported to the State Board of Health in 21 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	517,732	208	81	36	20	19	6	5
Worcester,	105,050	31	12	7	3	2	1	3
Fall River,	95,919	44	20	11	3	8	3	..
Lowell,	87,193	40	17	11	5	7	2	..
Cambridge,	86,812	36	16	10	6	8	1	1
Lynn,	65,220	..	..	..	..	..	..	..
New Bedford,	62,416	18	10	6	1	3	1	2
Somerville,	57,977	14	5	2	2	..	..	2
Lawrence,	55,510	20	10	4	2	3	1	..
Springfield,	54,790	19	6	4	2	3	..	1
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	11	6	4	..	4	..	..
Brockton,	35,853	..	..	..	..	..	..	..
Malden,	32,894	9	4	4	2	3	..	1
Chelsea,	32,716	12	5	2	1	2	..	..
Haverhill,	31,406	5	0	..	1	..	..	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	10	5	1	..	1	..	..
Fitchburg,	28,392	7	4	..	..	..	..	..
Taunton,	27,812	11	6	3	..	3	..	..
Quincy,	22,562	..	..	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	5	2	1	..	1	..	..
Everett,	21,575	..	..	..	..	..	..	..
North Adams,	19,135	6	3	1	..	1	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	..	..	..	..	..	..	..
Medford,	15,832	1	1	..	..	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	7	1	2	..	1	1	..
Woburn,	14,449	4	3	..	..	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	..	..	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	..	..	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,427,692	518	217	109	48	69	16	15

DEATHS FROM PREVALENT DISEASES IN 21 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

One hundred and nine deaths were reported from the principal infectious diseases: diarrhœal diseases, 69; typhoid fever, 16; diphtheria and croup, 15; cerebro-spinal meningitis, 7; whooping-cough, 2.

No deaths were reported from small-pox, measles, scarlet-fever, erysipelas, malarial fever and puerperal fever.

There were 48 deaths from consumption; acute lung diseases, 28; and still-births, 36.

From cerebro-spinal meningitis: Boston, 6; Worcester, 1. From whooping-cough: Lowell, 2,

Deaths under five years of age numbered 217, as compared with 239 for the preceding week.

Deaths from the principal infectious diseases numbered 109, as compared with 133 for the preceding week.

The death rates for the week were: Boston, 20.88; Worcester, 15.34; Fall River, 23.76; Lowell, 23.84; Cambridge, 21.60; Lynn, ——; New Bedford, 14.99; Somerville, 12.54; Lawrence, 18.74; Springfield, 17.95; Holyoke, ——; Salem, 15.86; Brockton,——; Malden, 14.22; Chelsea, 19.06; Haverhill, 8.28; Gloucester, ——; Newton, 17.93; Fitchburg, 12.82; Taunton, 20.55; Quincy, ——; Pittsfield, ——; Waltham, 11.92; Everett, ——; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 3.28; Marlborough, ——; Newburyport, 24.59; Woburn, 14.36.

The total death rate for the week was 18.85, as compared with 19.32 and 20.25 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING SEPT. 25, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever, ...	55.	Measles, ...	14.
Diphtheria and croup, ...	106.	Typhoid fever, ...	72.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.				STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Sept. 25, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.		MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.			8 A. M.	8 P. M.		HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 19,	29.98	62	71	52	68	74		71	S.	S.	17	12			C.	C.			0.00
Monday, 20,	29.90	60	70	50	98	93		96	N. E.	N. W.	3	14			O.	O.			0.74
Tuesday, 21,	30.08	54	62	47	60	58		59	N. W.	W.	20	10			C.	C.			0.00
Wednes'y, 22,	30.31	52	57	46	69	81		75	N. E.	N. E.	10	11			F.	O.			0.00
Thursday, 23,	30.23	54	58	49	76	97		86	N. E.	N. E.	20	16			O.	R.			T.
Friday, 24,	29.97	62	69	55	99	84		92	N. E.	W.	15	9			R.	C.			0.61
Saturday, 25,	30.06	67	78	56	73	60		66	N. W.	W.	11	8			C.	C.			0.00
Week, - -	30.07		68	51				78											1.35

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Oct. 2, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 39.

Entered at the post-office at Boston as second-class matter.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Oct. 2, 1897.

Deaths reported to the State Board of Health in 25 Cities and Greater Towns.

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CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	517,732	172	68	27	18	17	5	4
Worcester,	105,050	38	13	6	4	5	..	..
Fall River,	95,919	46	25	8	2	6	..	..
Lowell,	87,193	28	12	5	2	5	..	..
Cambridge,	86,812	21	9	5	4	2	2	..
Lynn,	65,220	17	..	4	..	2	..	..
New Bedford,	62,416	29	12	1	4	..	1	..
Somerville,	57,977	16	4	2	2	..	..	2
Lawrence,	55,510	22	13	11	..	8	..	1
Springfield,	54,790	14	6	4	2	2	..	2
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	7	1	..	2	..	..	..
Brockton,	35,853	7	3	..	..	..	..	..
Malden,	32,894	7	3	3	..	1	..	..
Chelsea,	32,716	7	2	1	1	1	..	..
Haverhill,	31,406	8	2	..	..	..	..	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	7	5	1	1	1	..	..
Fitchburg,	28,392	5	2	1	2	1	..	..
Taunton,	27,812	11	2	2	3	1	..	1
Quincy,	22,562	..	..	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	4	0	..	1	..	..	..
Everett,	21,575	2	0	1	..	..	..	..
North Adams,	19,135	8	4	..	..	..	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	4	2	..	..	..	..	..
Medford,	15,832	4	3	1	..	1	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	..	..	..	..	..	..	..
Woburn,	14,449	8	3	..	1	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	11	5	5	..	5	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	..	..	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,563,207	493	199	88	49	58	8	10

DEATHS FROM PREVALENT DISEASES IN 25 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Eighty-eight deaths were reported from the principal infectious diseases: diarrhœal diseases, 58; diphtheria and croup, 10; typhoid fever, 8; cerebro-spinal meningitis, 5; scarlet-fever, 2; malarial fever, whooping-cough and puerperal fever, 1 each.

No deaths were reported from small-pox and erysipelas.

There were 49 deaths from consumption; acute lung diseases, 41; and still-births, 37.

From cerebro-spinal meningitis: Lynn, 2; Worcester, Malden and Everett, 1 each. From scarlet-fever: Lawrence, 2. From malarial fever: Fall River, 2. From measles: Cambridge, 1. From whooping-cough: Malden, 1. From puerperal fever: Everett, 1.

Deaths under five years of age numbered 196, as compared with 217 for the preceding week.

Deaths from the principal infectious diseases numbered 88, as compared with 109 for the preceding week.

The death rates for the week were: Boston, 17.26; Worcester, 18.81; Fall River, 24.84; Lowell, 16.68; Cambridge, 12.60; Lynn, 11.85; New Bedford, 24.15; Somerville, 14.43; Lawrence, 21.71; Springfield, 13.23; Holyoke, ——; Salem, 10.09; Brockton, 10.15; Malden, 11.06; Chelsea, 11.12; Haverhill, 13.24; Gloucester, ——; Newton, 11.55; Fitchburg, 9.16; Taunton, 20.55; Quincy, ——; Pittsfield. ——; Waltham, 9.53; Everett, 4.82; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 14.13; Marlborough, ——; Newburyport, ——; Woburn, 28.72.

The total death rate for the week was 16.39, as compared with 18.85 and 19.32 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING OCT. 2, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever, ...	46.	Measles, ...	4.
Diphtheria and croup, ...	81.	Typhoid fever, ...	80.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Oct. 2, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.		8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
September.																
Sunday, 26,	29.88	68	79	56	76	99	88	S. W.	N. W.	8	16		O.	R.		0.08
Monday, 27,	30.04	52	60	45	66	52	59	N. W.	N. W.	20	17		C.	C.		T.
Tuesday, 28,	30.20	52	62	41	59	36	48	W.	N. W.	12	15		C.	C.		0.00
Wednes'y, 29,	30.28	56	67	45	48	49	48	N. W.	N. W.	15	2		C.	C.		0.00
Thursday, 30,	30.24	63	76	50	65	67	66	W.	S. W.	3	10		C.	C.		0.00
October.																
Friday, 1,	30.12	71	86	56	52	61	56	N. E.	W.	16	11		C.	C.		0.00
Saturday, 2,	30.56	50	56	44	73	47	60	N. E.	N. E.	6	26		C.	C.		0.00
Week, - -	30.19		69	48			61									0.08

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

MONTHLY MORTALITY

In 6 smaller towns of Massachusetts, as reported to the State Board of Health for the month of September.

TOWNS.	POPULATION.	Reported Deaths in Each.	Deaths under five years of age.	DEATHS FROM					
				Infectious Diseases.	Consumption.	Diphtheria and Croup.	Diarrhœal Diseases.	Cerebro-spinal meningitis.	
Amesbury, ...	9,986	8	3	3	2	..	3	..	
Revere, ...	7,423	11	5	1	..	..	..	1	
Palmer, ...	6,858	3	0	1	..	1	..	..	
Hudson, ...	5,308	5	3	3	1	..	3	..	
Easthampton, ...	4,790	5	0	1	..	..	..	1	
Merrimac, ...	2,301	4	1	1	..	..	..	1	
Total of reporting towns, . .	36,646	36	12	10	3	1	6	3	

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Oct. 9, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 40.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

HENRY P. WALCOTT, M.D., Cambridge, *Chairman.*
GERARD C. TOBEY, Esq., Wareham.
FRANK W. DRAPER, M.D., Boston.
HIRAM F. MILLS, C.E., Lawrence.
JAMES W. HULL, Pittsfield.
CHARLES H. PORTER, Quincy.
JULIAN A. MEAD, M.D., Watertown.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Oct. 9, 1897.

Deaths reported to the State Board of Health in 26 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	517,732	192	59	23	26	10	7	5
Worcester,	105,050	26	15	7	3	3	1	..
Fall River,	95,919	44	28	7	5	6	1	..
Lowell,	87,193	28	11	6	3	5	1	..
Cambridge,	86,812	26	7	2	5	2	..	..
Lynn,	65,220	20	4	2	3	..	..	..
New Bedford,	62,416	20	9	7	..	7	..	..
Somerville,	57,977	9	2	..	..	..	..	..
Lawrence,	55,510	19	10	4	..	2	1	1
Springfield,	54,790	20	6	1	2	..	1	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	10	3	..	2	..	..	..
Brockton,	35,853	7	1	1	2	1	..	..
Malden,	32,894	6	1	2	..	..	..	2
Chelsea,	32,716	12	5	1	2	1	..	..
Haverhill,	31,406	14	3	1	1	..	..	1
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	11	2	3	1	2	1	..
Fitchburg,	28,392	9	0	1	..	..	1	..
Taunton,	27,812	5	3	1	..	1	..	..
Quincy,	22,562	..	..	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	8	2	..	..	..	..	..
Everett,	21,575	7	1	..	..	..	..	..
North Adams,	19,135	6	3	4	1	1	1	2
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	9	1	2	2	..	..	2
Medford,	15,832	2	1	..	..	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	1	1	1	..	..	..	1
Woburn,	14,449	4	2	..	1	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	4	3	2	..	2	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	..	..	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,508,001	519	183	78	59	43	15	14

DEATHS FROM PREVALENT DISEASES IN 26 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Seventy-eight deaths were reported from the principal infectious diseases: diarrhœal diseases, 43; typhoid fever, 15; diphtheria and croup, 14; cerebro-spinal meningitis, 5; malarial fever, 1.

No deaths were reported from small-pox, measles, scarlet-fever, whooping-cough, erysipelas, puerperal fever and malarial fever.

There were 59 deaths from consumption; acute lung diseases, 58; and still-births, 39.

From cerebro-spinal meningitis: Worcester, 3; Lynn, 2. From malarial fever: Boston, 1.

Deaths under five years of age numbered 183, as compared with 199 for the preceding week.

Deaths from the principal infectious diseases numbered 78, as compared with 88 for the preceding week.

The death rates for the week were: Boston, 19.27; Worcester, 12.87; Fall River, 23.76; Lowell, 16.68; Cambridge, 15.60; Lynn, 15.94; New Bedford, 16.66; Somerville, 8.06; Lawrence, 17.80; Springfield, 18.90; Holyoke, ——; Salem, 14.42; Brockton, 10.15; Malden, 9.48; Chelsea, 17.47; Haverhill, 23.17; Gloucester, ——; Newton, 19.72; Fitchburg, 16.48; Taunton, 9.34; Quincy, ——; Pittsfield. ——; Waltham, 19.07; Everett, 16.87; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 6.56; Marlborough, ——; Newburyport, 3.51; Woburn, 14.36.

The total death rate for the week was 17.83, as compared with 16.39 and 18.85 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING OCT. 9, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever,	80.	Measles,	9.
Diphtheria and croup,	130.	Typhoid fever,	120.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Oct. 9, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.		8 A. M.	8 P. M.		HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 3,	30.63	48	56	40	69	73	71	N.	S.	9	10		C.	C.			0.00
Monday, 4,	30.41	60	75	44	67	57	62	W.	S. W.	7	8		C.	C.			0.00
Tuesday, 5,	30.12	61	75	47	64	59	62	S. W.	S. W.	7	14		C.	C.			0.00
Wednes'y, 6,	29.86	62	73	52	80	77	78	S. W.	W.	10	9		C.	C.			T.
Thursday, 7,	29.94	56	62	50	69	77	73	N. W.	N.	6	5		C.	O.			T.
Friday, 8,	30.06	52	58	45	72	54	63	N. W.	S.	9	6		F.	C.			0.02
Saturday, 9,	30.02	54	67	42	62	39	50	S. W.	N.	18	16		F.	C.			0.00
Week, - -	30.15		66	46			66										0.02

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of September.

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk,	182	320	502	Maple Syrup,	0	1	1
Butter,	34	0	34	Canned Goods,	6	0	6
Cheese,	13	0	13	Honey,	3	1	4
Lard,	..	..	..	Tea,	10	0	10
Olive Oil,	..	..	..	Coffee,	20	2	22
Vinegar,	7	1	8	Cocoa,	5	2	7
Spices,	123	17	140	Confectionery,	2	0	2
Cream of Tartar,	26	2	28	Other articles of Food and Drinks,	3	0	3
Molasses,	31	0	31	Drugs,	21	19	40
Syrups,	..	..	..				
Maple Sugar,	..	..	..				
				Totals,	486	365	851

Percentage of adulteration, 42.6. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour, and the various other cereal products, are very rarely adulterated, and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration.

The ratio of samples of milk found to be below the standard was 63.7, as compared with 11.1 for the preceding month, the standard for the month of September being 13 per cent. total solids.

Twelve complaints were entered in the courts during the month for violation of the laws relative to the inspection of Food and Drugs. Eight of these were for violation of the Statutes relative to the sale of Milk, Allspice one, Cassia one, Coffee one and Lime Juice one. Fines were imposed amounting to $375.

The samples of drugs found to be adulterated were Chlorinated Lime, Distilled Water, Lime Juice, Red Wine, Tincture of Iodine and Whiskey.

Cities and towns from which samples of food were collected: Boston, Worcester, Lowell, Cambridge, Somerville, Lawrence, Brockton, Malden, Chelsea, Haverhill, Gloucester, Newton, Waltham, Everett, Medford, Abington, Arlington, Bridgewater, Brookline, Canton, Dedham, Dudley, Framingham, Hingham, Hopkinton, Hull, Stoneham, Stoughton, Wareham, Webster and Winchester.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Oct. 16, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 41.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it als contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

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JULIAN A. MEAD, M.D., Watertown.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Oct. 16, 1897.

Deaths reported to the State Board of Health in 24 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	517,732	205	67	22	27	8	5	6
Worcester,	105,050	42	14	7	7	5	1	..
Fall River,	95,919	35	15	9	3	5	2	1
Lowell,	87,193	43	23	9	3	6	1	2
Cambridge,	86,812	28	13	6	3	4	..	1
Lynn,	65,220	24	7	3	2	1	1	..
New Bedford,	62,416	19	11	6	..	4	..	2
Somerville,	57,977	14	3	2	1	1	..	1
Lawrence,	55,510	20	7	3	1	2	..	1
Springfield,	54,790	18	5	1	..	1	..	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	14	5	2	2	2	..	..
Brockton,	35,853	7	3	1	1	..	..	..
Malden,	32,894	..	..	..	..	..	..	..
Chelsea,	32,716	11	5	2	..	..	1	..
Haverhill,	31,406	7	1	2	1	..	2	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	10	2	2	2	..	1	1
Fitchburg,	28,392	4	3	..	..	..	..	..
Taunton,	27,812	5	1	..	..	..	..	..
Quincy,	22,562	11	3	..	2	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	5	3	1	..	..	..	1
Everett,	21,575	..	..	..	..	..	..	..
North Adams,	19,135	9	2	2	1	..	1	1
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	4	1	..	1	..	..	..
Medford,	15,832	1	0	..	..	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	5	0	..	2	..	..	..
Woburn,	14,449	11	2	2	2	2	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	..	..	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	..	..	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,515,463	552	196	82	61	44	11	17

DEATHS FROM PREVALENT DISEASES IN 21 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Eighty-two deaths were reported from the principal infectious diseases: diarrhœal diseases, 41; diphtheria and croup, 17; typhoid fever, 15; cerebro-spinal meningitis, 6; scarlet-fever, 2; whooping-cough, 1.

No deaths were reported from small-pox, erysipelas, malarial fever and puerperal fever.

There were 61 deaths from consumption; acute lung diseases, 52; and still-births, 31.

From cerebro-spinal meningitis: Boston, 2; Worcester, Fall River, Lynn and Chelsea, 1 each. From scarlet fever: Boston and Cambridge, 1 each. From whooping-cough: Brockton, 1.

Deaths under five years of age numbered 196, as compared with 183 for the preceding week.

Deaths from the principal infectious diseases numbered 82, as compared with 78 for the preceding week.

The death rates for the week were: Boston, 20.58; Worcester, 20.79; Fall River, 18.90; Lowell, 25.93; Cambridge, 16.80; Lynn, 19.13; New Bedford, 15.82; Somerville, 12.54; Lawrence, 18.74; Springfield, 17.01; Holyoke, ——; Salem, 20.18; Brockton, 10.15; Malden, ——; Chelsea, 17.47; Haverhill, 11.58; Gloucester, ——; Newton, 17.93; Fitchburg, 7.32; Taunton, 9.34; Quincy, 25.35; Pittsfield, ——; Waltham, 11.92; Everett, ——; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 3.28; Marlborough, ——; Newburyport, 17.57; Woburn, ——.

The total death rate for the week was 18.94, as compared with 17.83 and 16.39 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING OCT. 16, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever, ...	98.	Measles, ...	9.
Diphtheria and croup, ...	125.	Typhoid fever, ...	96.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Oct. 16, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 10,	30.30	46	56	37	51	59	55	N. W.	S.	12	8	C.	C.		0.00
Monday, 11,	30.21	56	67	46	76	89	82	S.	S.	12	14	O.	O.		T.
Tuesday, 12,	30.03	70	76	65	86	92	89	S.	S. W.	18	12	O.	O.		0.28
Wednes'y, 13,	30.37	62	70	55	73	58	66	W.	N. W.	8	6	C.	C.		0.00
Thursday, 14,	30.50	56	66	47	70	83	76	N. W.	S. W.	2	13	C.	F.		0.00
Friday, 15,	30.18	70	86	55	73	65	69	S. W.	S. W.	15	8	O.	C.		0.00
Saturday, 16,	29.87	78	88	67	65	58	62	W.	S. W.	12	16	F.	O.		0.00
Week, - -	30.19		73	53			71								0.28

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Oct. 23, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 42.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it als contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

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JULIAN A. MEAD, M.D., Watertown.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Oct. 23, 1897.

Deaths reported to the State Board of Health in 25 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week. but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued. to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	517,732	212	60	24	32	9	6	5
Worcester,	105,050	31	12	7	1	..	4	2
Fall River,	95,919	38	21	6	3	3	1	1
Lowell,	87,193	30	15	5	1	4	..	1
Cambridge,	86,812	27	15	8	2	3	..	4
Lynn,	65,220	10	4	..	..	..	..	..
New Bedford,	62,416	29	14	8	1	4	..	2
Somerville,	57,977	17	12	6	2	2	..	2
Lawrence,	55,510	12	5	2	1	1	1	1
Springfield,	54,790	17	5	3	2	1	..	2
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	7	0	..	1	..	..	..
Brockton,	35,853	6	2	..	..	..	..	..
Malden,	32,894	9	3	2	1	2	..	..
Chelsea,	32,716	10	4	..	2	..	..	..
Haverhill,	31,406	5	1	..	2	..	..	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	10	3	2	..	1	..	1
Fitchburg,	28,392	8	4	1	1	1	..	..
Taunton,	27,812	7	1	1	1	..	..	1
Quincy,	22,562	6	2	1	1	1	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	3	1	..	1	..	..	..
Everett,	21,575	5	3	..	1	..	..	..
North Adams,	19,135	8	4	2	..	2	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	..	..	..	..	..	..	..
Medford,	15,832	1	1	..	..	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	5	1	..	1	..	..	..
Woburn,	14,449	4	0	1	..	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	..	..	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	..	..	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,572,900	517	193	79	57	34	12	22

DEATHS FROM PREVALENT DISEASES IN 25 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Seventy-nine deaths were reported from the principal infectious diseases: diarrhœal diseases, 34; diphtheria and croup, 22; typhoid fever, 12; cerebro-spinal meningitis, 6; whooping-cough, 2.

No deaths were reported from small-pox, measles, erysipelas, puerperal fever and malarial fever.

There were 61 deaths from acute lung diseases; consumption, 57; and still-births, 36.

From cerebro-spinal meningitis: Boston, Worcester, Cambridge, New Bedford, Somerville and Woburn, 1 each. From scarlet-fever: Boston, Fall River and New Bedford, 1 each. From whooping-cough: Boston, 2.

Deaths under five years of age numbered 193, as compared with 196 for the preceding week.

Deaths from the principal infectious diseases numbered 79, as compared with 82 for the preceding week.

The death rates for the week were: Boston, 21.28; Worcester, 15.34; Fall River, 20.52; Lowell, 17.88; Cambridge, 16.20; Lynn, 7.97; New Bedford, 24.15; Somerville, 15.23; Lawrence, 11.24; Springfield, 16.06; Holyoke, ——; Salem, 10.09; Brockton, 8.70; Malden, 14.22; Chelsea, 15.89; Haverhill, 8.27; Gloucester, ——; Newton, 17.93; Fitchburg, 13.65; Taunton, 13.08; Quincy, 13.83; Pittsfield. ——; Waltham, 7.23; Everett, 7.23; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 3.28; Marlborough, ——; Newburyport, 17.57; Woburn, 14.36.

The total death rate for the week was 17.09, as compared with 18.94 and 17.83 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING OCT. 23, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever,	81.	Measles,	10.
Diphtheria and croup,	174.	Typhoid fever,	77.

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Oct. 23, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.		MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.		8 A. M.	8 P. M.		HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 17,	30.20	58	74	40	60	46		53	N. W.	N. W.	19	15		F.	C.			0.00
Monday, 18,	30.32	48	60	36	66	42		54	N. W.	W.	9	10		C.	C.			0.00
Tuesday, 19,	30.12	57	68	46	56	38		47	W.	W.	8	6		F.	C.			0.00
Wednes'y, 20,	30.12	52	53	50	81	84		82	N. E.	E.	9	18		O.	O.			0.00
Thursday, 21,	30.03	47	51	43	96	66		81	N. E.	N. E.	17	16		R.	O.			0.11
Friday, 22,	30.24	43	48	38	76	75		76	N.	N. E.	12	7		C.	O.			0.00
Saturday, 23,	30.34	44	51	38	69	66		68	N.	E.	9	6		C.	C.			0.00
Week, - -			58	41				69										0.11

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Oct. 30, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 43.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Oct. 30, 1897.

Deaths reported to the State Board of Health in 25 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from Principal Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	517,732	182	57	16	28	2	5	7
Worcester,	105,050	31	15	8	..	6	..	1
Fall River,	95,919	35	13	6	3	4	1	1
Lowell,	87,193	38	20	2	1	1	..	1
Cambridge,	86,812	26	6	1	3	..	..	..
Lynn,	65,220	21	9	1	2	..	..	..
New Bedford,	62,416	6	..	5	..	3	..	2
Somerville,	57,977	17	7	4	1	..	..	3
Lawrence,	55,510	24	13	5	1	1	..	4
Springfield,	54,790	26	6	4	..	2	..	1
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	7	1	..	..	..	..	..
Brockton,	35,853	5	2	2	1	2	..	..
Malden,	32,894	5	2	1	..	1	..	..
Chelsea,	32,716	10	4	2	2	1	..	1
Haverhill,	31,406	5	2	3	..	..	..	2
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	11	5	2	2	1	..	..
Fitchburg,	28,392	5	1	..	..	..	..	..
Taunton,	27,812	7	0	1	..	..	..	1
Quincy,	22,562	..	..	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	5	1	..	..	..	..	..
Everett,	21,575	6	3	1	..	..	..	1
North Adams,	19,135	4	0	1	..	..	..	1
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	..	..	..	..	..	..	..
Medford,	15,832	2	0	..	..	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	6	3	..	..	..	..	..
Woburn,	14,449	5	3	..	1	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	10	6	8	1	6	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	..	..	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Consumption.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,561,837	489	179	73	46	30	6	26

DEATHS FROM PREVALENT DISEASES IN 25 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Seventy-three deaths were reported from the principal infectious diseases: diarrhœal diseases, 30; diphtheria and croup, 26; typhoid fever, 8; cerebro-spinal meningitis, 4; scarlet-fever, 3; erysipelas, 1; puerperal fever, 1.

No deaths were reported from small-pox, measles, whooping-cough and malarial fever.

There were 51 deaths from acute lung diseases; consumption, 46; and still-births, 39.

From cerebro-spinal meningitis: Boston, Worcester, Lynn and Somerville, 1 each. From scarlet-fever: Boston, Cambridge and Newton, 1 each. From erysipelas: Springfield, 1. From puerperal fever: Clinton, 1.

Deaths under five years of age numbered 179, as compared with 193 for the preceding week.

Deaths from the principal infectious diseases numbered 73, as compared with 79 for the preceding week.

The death rates for the week were: Boston, 18.27; Worcester, 15.34; Fall River, 18.90; Lowell, 22.64; Cambridge, 15.60; Lynn, 16.74; New Bedford, 4.99; Somerville, 15.23; Lawrence, 22.58; Springfield, 19.57; Holyoke, ——; Salem, 10.09; Brockton, 7.25; Malden, 7.95; Chelsea, 15.89; Haverhill, 8.27; Gloucester, ——; Newton, 19.72; Fitchburg, 9.16; Taunton, 13.08; Quincy, ——; Pittsfield, ——; Waltham, 11.92; Everett, 14.46; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 6.56; Marlborough, ——; Newburyport, 21.08; Woburn, 17.95.

The total death rate for the week was 16.27, as compared with 17.09 and 18.94 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING OCT. 30, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever,	77	Measles,	18
Diphtheria and croup,	195	Typhoid fever,	76

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Oct. 30, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 24,	30.24	44	50	39	83	89	86	N.	N. E.	7	8	O.	O.		
Monday, 25,	30.02	52	57	47	77	75	76	N. E.	N. E.	8	8	O.	C.		
Tuesday, 26,	30.15	52	57	46	80	93	86	N.	N. E.	13	7	C.	C.		
Wednes'y, 27,	30.21	48	56	40	89	94	92	N.	E.	8	5	C.	C.		
Thursday, 28,	29.86	53	58	48	98	94	96	N.	S. W.	6	2	G.	O.		
Friday, 29,	29.63	50	60	40	83	82	82	W.	N. W.	7	8	O.	C.		
Saturday, 30,	29.99	41	48	34	66	51	56	N. W.	N. W.	10	5	C.	C.		
Week, - -	30.01		55	42			82								None.

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Nov. 6, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 44.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

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MORTALITY OF MASSACHUSETTS

For the Week ending Nov. 6, 1897.

Deaths reported to the State Board of Health in 25 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	517,732	192	60	11	29	1	4	5
Worcester,	105,050	32	9	6	3	1	1	3
Fall River,	95,919	27	10	1	5	1	..	..
Lowell,	87,193	31	11	4	6	3	..	1
Cambridge,	86,812	19	8	3	3	..	..	..
Lynn,	65,220	15	2	1	2	1	..	..
New Bedford,	62,416	21	4	5	1	1	2	2
Somerville,	57,977	18	6	4	2	1	2	..
Lawrence,	55,510	27	13	2	3	..	..	2
Springfield,	54,790	17	4	2	3	1	..	1
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	9	4	2	1	..	..	1
Brockton,	35,853	..	..	..	..	..	..	..
Malden,	32,894	7	2	..	1	..	..	..
Chelsea,	32,716	12	1	..	2	..	..	..
Haverhill,	31,406	14	4	3	1	2	1	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	6	1	2	..	1	..	1
Fitchburg,	28,392	5	1	..	..	..	..	..
Taunton,	27,812	7	1	1	2	..	..	1
Quincy,	22,562	7	1	..	2	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	4	2	..	..	..	..	..
Everett,	21,575	7	3	1	..	..	..	1
North Adams,	19,135	9	2	3	1	..	1	1
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	2	1	..	1	..	..	..
Medford,	15,832	2	2	..	..	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	2	0	..	..	..	..	..
Woburn,	14,449	1	1	1	..	..	..	1
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	..	..	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	..	..	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,553,213	493	153	52	68	13	11	20

DEATHS FROM PREVALENT DISEASES IN 25 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Fifty-two deaths were reported from the principal infections diseases: diphtheria and croup, 20; diarrhœal diseases, 13; typhoid fever, 11; cerebro-spinal meningitis, 5; whooping-cough, 2; scarlet-fever, 1.

No deaths were reported from small-pox, malarial fever, measles, erysipelas and puerperal fever.

There were 68 deaths from acute lung diseases; consumption, 68; and still-births, 24.

From cerebro-spinal meningitis: Cambridge, 2; Boston, Worcester and Somerville, 1 each. From whooping-cough: Cambridge and North Adams, 1 each. From scarlet-fever: Cambridge, 1.

Deaths under five years of age numbered 153, as compared with 179 for the preceding week.

Deaths from the principal infectious diseases numbered 52, as compared with 73 for the preceding week.

The death rates for the week were: Boston, 19.27; Worcester, 15.84; Fall River, 14.58; Lowell, 18.47; Cambridge, 11.40; Lynn, 11.95; New Bedford, 17.49; Somerville, 16.12; Lawrence, 25 29; Springfield, 16.06; Holyoke, ——; Salem, 12.97; Brockton, ——; Malden, 11.06; Chelsea 19.06; Haverhill, 23.17; Gloucester, ——; Newton, 10.75; Fitchburg, 9.16; Taunton, 13.08; Quincy, 16.13; Pittsfield, ——; Waltham, 9.53; Everett, 16.87; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 6.56; Marlborough, ——; Newburyport, 7.02; Woburn, 3.59.

The total death rate for the week was 16.50, as compared with 16.27 and 17.09 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING NOV. 6, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever,	98	Measles,	13
Diphtheria and croup,	166	Typhoid fever,	64

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Nov. 6, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.		8 A. M.	8 P. M.		HOURS DURATION.	AMOUNT IN INCHES.
Sunday, Oct. 31,	30.18	42	53	32	56	63	60	N. W.	S. W.	4	10		C.	F.			0.00
Monday, Nov. 1,	30.10	52	61	44	81	100	90	S.	N. E.	12	8		O.	R.			0.42
Tuesday, 2,	29.78	50	58	43	97	74	86	N. E.	N. W.	13	15		R.	C.			1.74
Wednes'y, 3,	29.83	51	59	43	92	64	78	W.	S. W.	5	9		O.	C.			0.09
Thursday, 4,	30.26	52	61	42	75	85	80	W.	S. E.	6	8		C.	O.			0.00
Friday, 5,	30.17	52	60	43	92	57	74	S. W.	W.	9	18		C.	C.			0.00
Saturday, 6,	29.87	55	66	44	84	63	74	S.	W.	8	12		O.	C.			0.16
Week, - -	30.03		59	41			78										2.41

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Nov. 13, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 45.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

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GERARD C. TOBEY, Esq., Wareham.
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JULIAN A. MEAD, M.D., Watertown.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Nov. 13, 1897.

Deaths reported to the State Board of Health in 25 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	517,732	185	46	14	24	3	1	5
Worcester,	105,050	26	4	2	..	..	..	1
Fall River,	95,919	39	18	4	3	2	1	..
Lowell,	87,193	34	12	3	5	..	..	3
Cambridge,	86,812	28	5	3	5	1	2	..
Lynn,	65,220	10	0	..	..	..	..	..
New Bedford,	62,416	19	5	3	..	2	1	..
Somerville,	57,977	16	6	3	1	..	..	3
Lawrence,	55,510	19	7	1	2	..	..	1
Springfield,	54,790	10	2	1	1	1	..	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	15	4	1	3	..	..	1
Brockton,	35,853	..	..	..	..	..	..	..
Malden,	32,894	3	0	..	1	..	..	..
Chelsea,	32,716	8	2	2	1	..	..	..
Haverhill,	31,406	8	2	2	2	..	2	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	8	3	2	3	..	..	..
Fitchburg,	28,392	9	2	1	2	..	..	..
Taunton,	27,812	9	4	..	3	..	..	..
Quincy,	22,562	4	2	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	4	2	1	1	1	..	..
Everett,	21,575	..	..	..	..	..	..	..
North Adams,	19,135	2	0	2	..	..	2	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	5	1	..	2	..	..	..
Medford,	15,832	2	0	..	1	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	4	0	..	..	..	..	..
Woburn,	14,449	5	3	1	..	..	..	1
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	4	1	1	..	1	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	..	..	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,541,926	476	131	47	60	11	9	15

DEATHS FROM PREVALENT DISEASES IN 25 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Forty-seven deaths were reported from the principal infectious diseases: diphtheria and croup, 15; diarrhœal diseases, 11; typhoid fever, 11; cerebro-spinal meningitis, 5; scarlet-fever, 2; erysipelas, 2; malarial fever, 2; puerperal fever, 1.

No deaths were reported from small-pox, measles and whooping-cough.

There were 60 deaths from acute lung diseases; consumption, 60; and still-births, 21.

From cerebro-spinal meningitis: Boston, 2; Worcester, Chelsea and Newton, 1 each. From scarlet-fever: Fall River and Newton, 1 each. From erysipelas: Boston, 2. From malarial fever: Chelsea and Fitchburg, 1 each. From puerperal fever: Boston, 1.

Deaths under five years of age numbered 131, as compared with 153 for the preceding week.

Deaths from the principal infectious diseases numbered 47, as compared with 52 for the preceding week.

The death rates for the week were: Boston, 18.57; Worcester, 12.87; Fall River, 21.06; Lowell, 20.26; Cambridge, 16.80; Lynn, 7.97; New Bedford, 15.82; Somerville, 14.33; Lawrence, 17.80; Springfield, 9.45; Holyoke, ——; Salem, 21.63; Brockton, ——; Malden, 5.74; Chelsea 12.71; Haverhill, 13.24; Gloucester, ——; Newton, 14.34; Fitchburg, 16.48; Taunton, 16.82; Quincy, 9.22; Pittsfield, ——; Waltham, 9.53; Everett, ——; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 6.56; Marlborough, ——; Newburyport, 14.05; Woburn, 17.95.

The total death rate for the week was 16.07, as compared with 16.55 and 16.27 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING NOV. 13, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever,	82	Measles,	12
Diphtheria and croup,	200	Typhoid fever,	60

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Nov. 13, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 7,	29.92	45	52	38	58	63	60	W.	W.	16	12	C.	C.		0.00
Monday, 8,	29.89	42	48	35	70	74	72	W.	N.W.	8	5	O.	O.		0.02
Tuesday, 9,	29.34	51	60	42	96	79	88	E.	S.W.	14	14	O.	C.		0.60
Wednes'y, 10,	29.78	44	52	37	60	69	64	W.	W.	16	10	C.	C.		0.00
Thursday, 11,	29.86	40	48	33	75	79	77	W.	E.	6	24	C.	R.		0.00
Friday, 12,	29.37	40	48	33	100	97	98	N.W.	W.	36	13	N.	O.		1.75
Saturday, 13,	29.77	42	47	36	72	63	68	W.	W.	24	14	F.	C.		0.00
Week, - -	29.70		51	35			75								2.37

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of October.

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk, . . .	267	272	539	Maple Syrup, . .	5	0	5
Butter, . . .	32	0	32	Canned Goods, .	12	0	12
Cheese, . . .	4	0	4	Honey, . . .	7	1	8
Lard, . . .	5	0	5	Tea, . . .	6	0	6
Olive Oil, . . .	..	..	..	Coffee, . . .	12	0	12
Vinegar, . . .	9	1	10	Cocoa, . . .	4	2	6
Spices, . . .	120	22	142	Confectionery, .	17	3	20
Cream of Tartar, .	30	1	31	Other articles of Food and Drinks,	12	5	17
Molasses, . . .	5	1	6	Drugs, . . .	62	25	87
Syrups, . . .	1	0	1				
Maple Sugar, . .	..	..	..				
				Totals, . .	610	333	943

Percentage of adulteration, 35.3. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour, and the various other cereal products, are very rarely adulterated, and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration.

The ratio of samples of milk found to be below the standard was 50.5, as compared with 63.7 for the preceding month.

Six complaints were entered in the courts during the month for violation of the laws relative to the inspection of Food and Drugs. Five of these were for violation of the Statutes relative to the sale of Milk. Fines were imposed amounting to $181.50.

The samples of drugs found to be adulterated were Bismuth Sub-carbonate, Bismuth Sub-nitrate, Chlorinated Lime, Extract of Liquorice, Olive Oil, Red Wine, Seidlitz Powders, Stronger Ammonia Water, Tincture of Iodine, White Mustard, White Wine and Whiskey.

Cities and towns from which samples of food were collected were: Boston, Worcester, Fall River, Lowell, Cambridge, New Bedford, Somerville, Salem, Brockton, Malden, Chelsea, Haverhill, Newton, Taunton, Quincy, Waltham, Everett, Medford, Marlborough, Beverley, Abington, Arlington, Brookline, Dedham, Hudson, Hyde Park, Marshfield, Natick, Plymouth, Revere, Stoneham, Watertown and Winthrop.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Nov. 20, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 46.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Nov. 20, 1897.

Deaths reported to the State Board of Health in 22 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	517,732	188	61	16	30	2	5	5
Worcester,	105,050	31	9	1	3	..	1	..
Fall River,	95,919	23	13	3	3	3	..	..
Lowell,	87,193	42	20	4	8	..	..	4
Cambridge,	86,812	24	9	3	6	1	..	..
Lynn,	65,220	..	..	..	..	..	..	..
New Bedford,	62,416	17	5	2	2	..	2	..
Somerville,	57,977	..	..	..	..	..	..	..
Lawrence,	55,510	24	14	2	3	2	..	..
Springfield,	54,790	12	3	2	3	..	1	1
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	5	2	..	..	..	..	..
Brockton,	35,853	..	..	..	..	..	..	..
Malden,	32,894	8	2	2	..	1	..	1
Chelsea,	32,716	8	2	..	1	..	..	..
Haverhill,	31,406	5	1	2	..	..	1	1
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	6	2	..	1	..	..	..
Fitchburg,	28,392	5	2	2	..	1	..	1
Taunton,	27,812	10	1	..	..	..	..	..
Quincy,	22,562	7	2	2	1	..	1	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	5	0	..	1	..	..	..
Everett,	21,575	6	2	2	..	..	1	..
North Adams,	19,135	6	0	3	..	..	3	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	..	..	..	..	..	..	..
Medford,	15,832	4	3	..	2	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	3	0	..	..	..	..	..
Woburn,	14,449	5	1	..	..	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	..	..	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	..	..	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,413,852	444	154	46	64	10	15	13

DEATHS FROM PREVALENT DISEASES IN 22 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Forty-six deaths were reported from the principal infectious diseases: typhoid fever. 15; diphtheria and croup, 13; diarrhœal diseases, 10; cerebro-spinal meningitis, 5; scarlet-fever, 2; whooping-cough, 1.

No deaths were reported from small-pox, measles, puerperal fever and malarial fever.

There were 64 deaths from acute lung diseases; consumption, 63; and still-births, 26.

From cerebro-spinal meningitis: Boston, 3; Cambridge and Quincy, 1 each. From scarlet-fever: Cambridge and Everett, 1 each. From whooping-cough: Boston, 1.

Deaths under five years of age numbered 154, as compared with 131 for the preceding week.

Deaths from the principal infectious diseases numbered 46, as compared with 47 for the preceding week.

The death rates for the week were: Boston, 19.87; Worcester, 15.34; Fall River, 12.42; Lowell, 25.03: Cambridge, 14.40; Lynn, ——; New Bedford, 14.16; Somerville, ——; Lawrence, 22 48; Springfield, 11.34: Holyoke, ——; Salem, 7.21; Brockton, ——; Malden, 12.64; Chelsea 12.71; Haverhill, 8.27; Gloucester, ——; Newton, 10.75; Fitchburg, 9.16; Taunton, 18.69; Quincy, 16.13; Pittsfield, ——; Waltham, 11.92; Everett, 14.46; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 13.13; Marlborough, ——; Newburyport, 10.54; Woburn, 17.95.

The total death rate for the week was 16.33, as compared with 16.07 and 16.50 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING NOV. 20, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

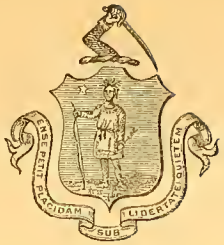
Scarlet-fever,	105	Measles,	18
Diphtheria and croup,	190	Typhoid fever,	52

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Nov. 20, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.		8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 14,	30.16	38	43	33	62	63	63	W.	N. W.	19	10		C.	C.		0.00
Monday, 15,	30.32	38	46	31	89	89	89	W.	S. E.	2	10		O.	O.		0.00
Tuesday, 16,	29.98	56	68	43	91	89	90	S. W.	S. W.	10	18		O.	F.		0.02
Wednes'y, 17,	30.32	38	43	32	82	57	70	N. W.	N. W.	9	8		F.	C.		0.16
Thursday, 18,	30.41	32	37	38	66	58	62	N. W.	N.	10	6		C.	F.		0.00
Friday, 19,	30.34	28	30	25	64	89	76	N. W.	S.	8	4		O.	N.		0.00
Saturday, 20,	30.27	34	41	26	94	92	93	N. W.	S.	10	7		N.	C.		0.02
Week, - -	30.26		44	32			77									0.20

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.



Weekly Bulletin

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—OF—

MASSACHUSETTS

FOR THE

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MORTALITY OF MASSACHUSETTS

For the Week ending Nov. 27, 1897.

Deaths reported to the State Board of Health in 24 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

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				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	517,732	184	58	15	38	1	5	6
Worcester,	105,050	30	15	5	2	..	..	3
Fall River,	95,919	37	11	3	5	3	..	..
Lowell,	87,193	29	8	2	6	..	..	2
Cambridge,	86,812	26	12	2	4	1	..	1
Lynn,	65,220	16	6	1	3	..	..	..
New Bedford,	62,416	19	5	2	..	1	1	..
Somerville,	57,977	17	5	4	2	..	..	2
Lawrence,	55,510	24	11	3	3	..	..	3
Springfield,	54,790	17	3	2	..	..	..	2
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	8	0	..	3	..	..	..
Brockton,	35,853	..	..	..	..	..	..	..
Malden,	32,894	6	2	1	1	1	..	..
Chelsea,	32,716	9	2	4	3	..	1	1
Haverhill,	31,406	7	1	..	2	..	..	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	7	2	2	2	..	1	..
Fitchburg,	28,392	3	1	..	..	..	..	..
Taunton,	27,812	8	1	..	2	..	..	..
Quincy,	22,562	5	2	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	4	3	1	..	..	..	..
Everett,	21,575	8	4	2	..	..	..	1
North Adams,	19,135	6	0	3	1	..	2	1
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	..	..	..	..	..	..	..
Medford,	15,832	4	0	..	..	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	5	0	1	..	..	1	..
Woburn,	14,449	4	3	..	1	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	..	..	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	..	..	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,537,049	483	155	53	78	7	11	22

DEATHS FROM PREVALENT DISEASES IN 24 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Fifty-three deaths were reported from the principal infectious diseases: diphtheria and croup, 22; typhoid fever, 11; diarrhœal diseases, 7; cerebro-spinal meningitis, 7; scarlet-fever, 2; erysipelas, 2; whooping-cough, 1; puerperal fever, 1.

No deaths were reported from small-pox, measles and malarial fever.

There were 78 deaths from acute lung diseases; consumption, 47; and still-births, 38.

From cerebro-spinal meningitis: Worcester and Somerville, 2 each; Boston, Lynn and Chelsea, 1 each. From scarlet-fever: Boston and Waltham, 1 each. From erysipelas: Newton and Everett, 1 each. From whooping-cough: Boston, 1. From puerperal fever: Chelsea, 1.

Deaths under five years of age numbered 155, as compared with 154 for the preceding week.

Deaths from the principal infectious diseases numbered 53, as compared with 46 for the preceding week.

The death rates for the week were: Boston, 18.47; Worcester, 14.85; Fall River, 16.57; Lowell, 17.28; Cambridge, 15.60; Lynn, 12.75; New Bedford, 15.82; Somerville, 15.23; Lawrence, 22.48; Springfield, 16.26; Holyoke, ——; Salem, 11.53; Brockton, ——; Malden, 9.48; Chelsea, 14.30; Haverhill, 11.58; Gloucester, ——; Newton, 12.55; Fitchburg, 5.49; Taunton, 14.95; Quincy, 11.52; Pittsfield, ——; Waltham, 9.53; Everett, 19.28; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 13.13; Marlborough, ——; Newburyport, 12.52; Woburn, 14.36.

The total death rate for the week was 16.34, as compared with 16.33 and 16.07 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING NOV. 27, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever,	72	Measles,	5
Diphtheria and croup,	182	Typhoid fever,	41

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Nov. 27, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 21,	29.89	49	61	37	99	87	93	W.	W.	6	10	O.	O.		0.00
Monday, 22,	30.05	40	50	29	72	73	72	N. W.	N.	9	5	O.	O.		0.00
Tuesday, 23,	29.96	25	33	17	93	82	88	N. W.	N. W.	10	14	O.	C.		0.29
Wednes'y, 24,	30.46	24	34	13	65	63	64	W.	S. W.	12	11	C.	C.		0.00
Thursday, 25,	30.42	37	46	28	65	73	69	S. W.	S. W.	10	12	F.	O.		0.00
Friday, 26,	30.13	54	64	43	87	85	86	S. W.	S. W.	20	24	O.	O.		0.03
Saturday, 27,	30.10	42	61	24	97	60	78	S. W.	N.	20	12	R.	C.		0.56
Week, - -	30.14		50	29			79								0.88

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Dec. 4, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 48.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

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JULIAN A. MEAD, M.D., Watertown.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Dec. 4, 1897.

Deaths reported to the State Board of Health in 22 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	517,732	187	48	18	30	3	3	9
Worcester,	105,050	28	14	2	6	..	..	1
Fall River,	95,919	28	14	1	2	1	..	..
Lowell,	87,193	31	5	3	10	..	1	2
Cambridge,	86,812	29	8	3	3	1	1	..
Lynn,	65,220	16	5	..	3	..	..	..
New Bedford,	62,416	18	9	2	2	..	..	1
Somerville,	57,977	16	4	4	2	..	..	2
Lawrence,	55,510	17	6	2	1	..	..	2
Springfield,	54,790	16	3	2	2	..	..	2
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	12	5	..	..	..	..	..
Brockton,	35,853	8	1	..	1	..	..	..
Malden,	32,894	6	0	..	..	..	..	..
Chelsea,	32,716	14	5	..	2	..	..	..
Haverhill,	31,406	10	2	2	1	..	1	1
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	6	0	..	1	..	..	..
Fitchburg,	28,392	7	1	2	1	..	..	2
Taunton,	27,812	13	2	..	3	..	..	..
Quincy,	22,562	..	..	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	8	2	..	..	..	..	..
Everett,	21,575	..	..	..	..	..	..	..
North Adams,	19,135	9	1	3	1	..	..	3
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	..	..	..	..	..	..	..
Medford,	15,832	4	1	..	..	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	8	0	..	1	..	..	..
Woburn,	14,449	..	..	..	..	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	..	..	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	..	..	..	..	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,475,812	491	106	44	72	5	6	5

DEATHS FROM PREVALENT DISEASES IN 22 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Forty-four deaths were reported from the principal infectious diseases: diphtheria and croup, 24; typhoid fever, 6; diarrhœal diseases, 5; erysipelas, 4; cerebro-spinal meningitis, 3; scarlet-fever, 1; puerperal fever, 1.

No deaths were reported from small-pox, measles, whooping-cough and malarial fever.

There were 72 deaths from acute lung diseases; consumption, 64; and still-births, 38.

From erysipelas: Boston, 2; Cambridge and Haverhill, 1 each. From cerebro-spinal meningitis: Somerville, 2; Worcester, 1. From scarlet-fever: Boston, 1. From puerperal fever: New Bedford, 1.

Deaths under five years of age numbered 106, as compared with 155 for the preceding week.

Deaths from the principal infectious diseases numbered 44, as compared with 53 for the preceding week.

The death rates for the week were: Boston, 18.77; Worcester, 13.86; Fall River, 15.12; Lowell, 18.47; Cambridge, 17.40; Lynn, 12.75; New Bedford, 14.99; Somerville, 14.33; Lawrence, 15.92; Springfield, 15.12; Holyoke, ——; Salem, 17.30; Brockton, 11.60; Malden, 9.48; Chelsea, 22.24; Haverhill, 16.55; Gloucester, ——; Newton, 10.75; Fitchburg, 12.82; Taunton, 24.29; Quincy, ——; Pittsfield, ——; Waltham, 18.47; Everett, ——; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 13.13; Marlborough, ——; Newburyport, 28.11; Woburn, ——.

The total death rate for the week was 17.30, as compared with 16.34 and 16.33 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING DEC. 4, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever,	91	Measles,	20
Diphtheria and croup,	154	Typhoid fever,	49

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Dec. 4, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.		8 A. M.	8 P. M.		HOURS DURATION.	AMOUNT IN INCHES.
Nov.																	
Sunday, 28,	30.61	26	32	21	56	73	64	N.	N.	9	8		C.	F.			0.00
Monday, 29,	30.19	36	42	30	74	96	85	N. W.	W.	5	7		O.	O.			0.10
Tuesday, 30,	30.14	30	37	24	69	64	66	N. W.	W.	16	5		C.	C.			0.01
Dec.																	
Wednes'y, 1,	30.16	30	38	23	54	84	69	S.	W.	5	7		O.	O.			0.01
Thursday, 2,	30.43	30	36	24	57	50	54	W.	W.	15	9		C.	C.			0.00
Friday, 3,	30.56	26	29	24	48	88	68	N. W.	N.	5	11		O.	N.			0.03
Saturday, 4,	30.16	34	40	28	93	95	94	N. W.	S. W.	8	13		O.	R.			0.02
Week, - -																	

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

MONTHLY MORTALITY

In 5 smaller towns of Massachusetts, as reported to the State Board of Health for the month of November.

TOWNS.	POPULATION.	Reported Deaths in Each.	Deaths under five years of age.	DEATHS FROM				
				Infectious Diseases.	Consumption.	Acute Lung Diseases.	Cerebro-spinal meningitis.	Diphtheria and Croup.
Amesbury,	9,986	7	2	1	2	..	1	..
Revere,	7,423	4	2	..	..	..	..	..
Hudson,	5,308	2	1	..	..	..	..	..
Easthampton,	4,790	7	3	1	..	1	..	1
Merrimac,	2,301	1	0	..	..	..	..	..
Total of reporting towns,	29,808	21	8	2	2	1	1	1

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Dec. 11, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 49.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Dec. 11, 1897.

Deaths reported to the State Board of Health in 24 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	517,732	191	51	14	42	..	4	5
Worcester,	105,050	28	12	8	4	1	1	4
Fall River,	95,919	29	9	3	7	1	1	..
Lowell,	87,193	32	10	2	8	1	..	1
Cambridge,	86,812	27	12	1	6	..	..	..
Lynn,	65,220	21	4	6	..	..	2	1
New Bedford,	62,416	22	6	1	3	..	..	1
Somerville,	57,977	16	5	..	4	..	..	..
Lawrence,	55,510	16	4	..	4	..	..	..
Springfield,	54,790	13	3	2	3	..	1	1
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	7	0	2	1	1	..	1
Brockton,	35,853	..	..	..	..	..	..	..
Malden,	32,894	5	0	..	..	..	..	..
Chelsea,	32,716	16	2	2	6	1	..	1
Haverhill,	31,406	7	2	..	..	..	..	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	13	5	2	1	1	..	..
Fitchburg,	28,392	10	1	..	..	..	..	..
Taunton,	27,812	12	4	..	..	..	..	..
Quincy,	22,562	..	..	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	5	1	..	..	..	..	..
Everett,	21,575	..	..	..	..	..	..	..
North Adams,	19,135	3	0	..	..	..	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	4	1	1	..	..	..	1
Medford,	15,832	3	0	..	..	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	5	0	..	..	..	..	..
Woburn,	14,449	3	0	..	..	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	..	..	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	6	2	..	2	..	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,505,290	494	134	44	91	6	9	16

DEATHS FROM PREVALENT DISEASES IN 24 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Forty-four deaths were reported from the principal infectious diseases: diphtheria and croup, 16; typhoid fever, 9; diarrhœal diseases, 6; cerebro-spinal meningitis, 7; scarlet-fever, 4; puerperal fever, 1; whooping-cough, 1.

No deaths were reported from small-pox, measles and malarial fever.

There were 91 deaths from acute lung diseases; consumption, 50; and still-births, 30.

From cerebro-spinal meningitis: Boston, 3; Worcester, 2; Somerville and Newton, 1 each. From scarlet-fever: Lynn, 3; Fall River, 1. From puerperal fever: Boston, 1. From whooping-cough: Cambridge 1.

Deaths under five years of age numbered 133, as compared with 106 for the preceding week.

Deaths from the principal infectious diseases numbered 44, as compared with 44 for the preceding week.

The death rates for the week were: Boston, 19.17; Worcester, 13.86; Fall River, 15.66; Lowell, 19.07; Cambridge, 16.20; Lynn, 16.74; New Bedford, 18.26; Somerville, 14.33; Lawrence, 14.99; Springfield, 12.28; Holyoke, ——; Salem, 10.09; Brockton, ——; Malden, 7.90; Chelsea, 25.42; Haverhill, 11.58; Gloucester, ——; Newton, 23.30; Fitchburg, 18.32; Taunton, 22.42; Quincy, ——; Pittsfield, ——; Waltham, 11.92; Everett, ——; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 9.85; Marlborough, ——; Newburyport, 17.57; Woburn, ——.

The total death rate for the week was 17.06, as compared with 17.30 and 16.34 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING DEC. 11, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever,	85	Measles,	38
Diphtheria and croup,	119	Typhoid fever,	46

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Dec. 11, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.		MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.		8 A. M.	8 P. M.		HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 5,	29.58	46	54	38	100	75		88	W.	W.	14	8		R.	O.			0.25
Monday, 6,	30.12	33	38	28	65	63		64	W.	N. E.	10	9		C.	C.			0.00
Tuesday, 7,	30.24	30	34	26	88	88		88	N.	N.	11	8		O.	O.			0.09
Wednes'y, 8,	30.30	33	38	28	95	88		92	N.	W.	5	8		O.	O.			0.04
Thursday, 9,	30.26	45	56	34	96	90		93	S.	S. W.	2	12		O.	F.			0.00
Friday, 10,	30.13	56	64	47	89	86		88	S. W.	S. W.	9	12		O.	O.			0.00
Saturday, 11,	29.92	57	63	51	81	88		86	S. W.	S. W.	12	12		O.	C.			0.03
Week, - -																		

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of November.

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk,	309	216	525	Maple Syrup,	2	0	2
Butter,	26	0	26	Canned Goods,	14	4	18
Cheese,	7	0	7	Honey,	6	0	6
Lard,	4	0	4	Tea,	9	0	9
Olive Oil,	..	..	..	Coffee,	19	0	19
Vinegar,	0	8	8	Cocoa,	1	0	1
Spices,	140	26	166	Confectionery,	9	0	9
Cream of Tartar,	35	2	37	Other articles of Food and Drinks,	9	4	13
Molasses,	16	3	19	Drugs,	66	19	85
Syrups,	1	0	1				
Maple Sugar,	..	..	..				
				Totals,	673	282	955

Percentage of adulteration, 29.5. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour, and the various other cereal products, are very rarely adulterated, and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration.

The ratio of samples of milk found to be below the standard was 41.1, as compared with 50.5 for the preceding month.

No complaints were entered in the courts during the month for violation of the laws relative to the inspection of Food and Drugs.

The samples of drugs found to be adulterated were Iron and Quinine Citrate, Olive Oil, Red Wine and Tincture of Iodine.

Cities and towns from which samples of food were collected were: Boston, Worcester, Lowell, Cambridge, Somerville, Lawrence, Brockton, Malden, Chelsea, Haverhill, Gloucester, Newton, Fitchburg, Quincy, Waltham, Everett, Medford, Newburyport, Woburn, Amesbury, Brookline, Hyde Park, Milford, Montague, Needham, Orange, Revere and Rockport.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Dec. 18, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 50.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

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CHARLES H. PORTER, Quincy.
JULIAN A. MEAD, M.D., Watertown.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Dec. 18, 1897.

Deaths reported to the State Board of Health in 27 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	517,732	172	46	6	28	1	..	5
Worcester,	105,050	26	8	4	2	1	..	3
Fall River,	95,919	26	14	1	5	..	..	1
Lowell,	87,193	31	11	4	5	2	..	2
Cambridge,	86,812	14	3	..	3	..	..	..
Lynn,	65,220	6	1	1	1	..	..	..
New Bedford,	62,416	16	8	..	5	..	..	..
Somerville,	57,977	6	0	1	2	..	..	1
Lawrence,	55,510	17	4	1	1	..	1	..
Springfield,	54,790	17	4	3	1	..	1	1
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	4	0	..	..	..	..	..
Brockton,	35,853	8	2	1	..	..	..	..
Malden,	32,894	3	0	..	..	..	..	..
Chelsea,	32,716	17	4	1	1	..	..	..
Haverhill,	31,406	10	..	2	..	..	1	1
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	8	1	1	1	..	..	..
Fitchburg,	28,392	7	1	..	3	..	..	..
Taunton,	27,812	6	1	..	2	..	..	..
Quincy,	22,562	1	0	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	6	0	..	..	..	..	..
Everett,	21,575	..	..	..	..	..	..	..
North Adams,	19,135	7	1	1	1	..	1	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	6	1	..	1	..	..	..
Medford,	15,832	6	1	1	1	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	4	1	..	..	..	..	..
Woburn,	14,449	2	0	..	..	..	..	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	5	3	..	2	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	2	1	1	..	..	..	1
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,589,651	433	116	29	65	4	4	15

DEATHS FROM PREVALENT DISEASES IN 27 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Twenty-nine deaths were reported from the principal infectious diseases: diphtheria and croup, 15; typhoid fever, 4; diarrhœal diseases, 4; scarlet-fever, 2; erysipelas, 2; whooping-cough, 1; cerebro-spinal meningitis, 1.

No deaths were reported from small-pox, measles, puerperal fever and malarial fever.

There were 65 deaths from acute lung diseases; consumption, 55; and still-births, 26.

From scarlet-fever: Brockton and Newton, 1 each. From whooping-cough: Lynn, 1. From erysipelas, Springfield and Medford, 1 each. From cerebro-spinal meningitis: Chelsea, 1.

Deaths under five years of age numbered 116, as compared with 116 for the preceding week.

Deaths from the principal infectious diseases numbered 29, as compared with 44 for the preceding week.

The death rates for the week were: Boston, 17.26; Worcester, 12.87; Fall River, 14.01; Lowell, 18.47; Cambridge, 8.40; Lynn, 4.78; New Bedford, 13.32; Somerville, 5.37; Lawrence, 15.92; Springfield, 16.06; Holyoke, ——; Salem, 5.76; Brockton, 11.60; Malden, 4.74; Chelsea, 27.01; Haverhill, 16.55; Gloucester, ——; Newton, 14.34; Fitchburg, 12.82; Taunton, 11.21; Quincy, 2.31; Pittsfield, ——; Waltham, 14.30; Everett, ——; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 20.16; Marlborough, ——; Newburyport, 14.05; Woburn, 7.18.

The total death rate for the week was 14.16, as compared with 17.06 and 17.30 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING DEC. 18, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever,	79	Measles,	14
Diphtheria and croup,	144	Typhoid fever,	35

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Dec. 18, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.		MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.		8 A. M.	8 P. M.		HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 12,	29.87	46	52	39	95	92		94	E.	N.W.	4	9		O.	O.			0.40
Monday, 13,	30.24	37	40	34	80	83		82	N.W.	N.E.	10	8		F.	O.			0.00
Tuesday, 14,	30.18	43	48	38	78	98		88	E.	E.	21	18		O.	R.			1.10
Wednes'y, 15,	29.63	52	59	46	95	92		94	S.	S.W.	13	14		R.	O.			1.10
Thursday, 16,	29.96	46	52	40	75	72		74	W.	W.	15	10		O.	O.			0.00
Friday, 17,	30.11	44	48	39	73	73		73	W.	S.	6	6		F.	O.			0.00
Saturday, 18,	29.92	36	49	23	73	77		75	W.	N.W.	18	18		C.	C.			0.02
Week, - -	29.99		49	37				86										2.62

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

—OF—

MASSACHUSETTS

FOR THE

Week ending Saturday, Dec. 25, 1897.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XV. No. 51.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each. Once in each month it also contains the returns of deaths from such other towns as report to the Board.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

HENRY P. WALCOTT, M.D., Cambridge, *Chairman.*
GERARD C. TOBEY, Esq., Wareham.
FRANK W. DRAPER, M.D., Boston.
HIRAM F. MILLS, C.E., Lawrence.
JAMES W. HULL, Pittsfield.
CHARLES H. PORTER, Quincy.
JULIAN A. MEAD, M.D., Watertown.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Dec. 25, 1897.

Deaths reported to the State Board of Health in 24 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report will in future be published weekly, and will contain the returns from all cities and towns having a population of more than 10,000 inhabitants. A monthly report will also be issued, to contain the returns from all reporting towns for the month.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	Estimated Population for 1897.	Reported Deaths in Each.	Deaths under five years.	Deaths from				
				Principal Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Boston,	517,732	175	48	18	32	3	9	3
Worcester,	105,050	29	10	3	5	1	..	2
Fall River,	95,919	29	16	1	10	..	..	..
Lowell,	87,193	41	15	2	6	..	2	..
Cambridge,	86,812	20	6	1	4	..	1	..
Lynn,	65,220	15	..	1	1	1	..	..
New Bedford,	62,416	20	6	1	2	..	..	..
Somerville,	57,977	..	..	..	..	..	..	..
Lawrence,	55,510	15	4	2	2	..	2	..
Springfield,	54,790	22	9	5	1	2	..	..
Holyoke,	42,364	..	..	..	..	..	..	..
Salem,	36,062	10	0	..	..	..	..	..
Brockton,	35,853	2	0	..	..	..	..	..
Malden,	32,894	13	0	2	2	..	1	..
Chelsea,	32,716	12	5	1	..	..	..	1
Haverhill,	31,406	12	1	2	1	..	..	..
Gloucester,	29,775	..	..	..	..	..	..	..
Newton,	28,990	3	0	..	..	..	..	..
Fitchburg,	28,392	8	3	..	2	..	..	..
Taunton,	27,812	10	1	..	1	..	..	..
Quincy,	22,562	..	..	..	..	..	..	..
Pittsfield,	21,891	..	..	..	..	..	..	..
Waltham,	21,812	9	0	2	2	..	2	..
Everett,	21,575	..	..	..	..	..	..	..
North Adams,	19,135	5	1	..	1	..	..	..
Northampton,	17,448	..	..	..	..	..	..	..
Chicopee,	17,368	..	..	..	..	..	..	..
Brookline,	16,164	..	..	..	..	..	..	..
Medford,	15,832	5	1	1	..	..	..	..
Marlborough,	15,445	..	..	..	..	..	..	..
Newburyport,	14,794	2	1	1	..	..	1	..
Woburn,	14,449	9	4	1	1	..	1	..
Melrose,	11,965	..	..	..	..	..	..	..
Hyde Park,	11,826	..	..	..	..	..	..	..
Beverly,	———	..	..	..	..	..	..	..
Clinton,	11,497	4	1	..	..	..	..	..
Weymouth,	———	..	..	..	..	..	..	..
Westfield,	10,663	3	2	1	..	1	..	..
Peabody,	———	..	..	..	..	..	..	..

RECAPITULATION.

	Estimated Population.	Deaths.	Deaths under five.	Infectious Diseases.	Acute Lung Diseases.	Diarrhœal Diseases.	Typhoid Fever.	Diphtheria and Croup.
Total of reporting towns,	1,492,948	473	184	45	73	8	19	6

DEATHS FROM PREVALENT DISEASES IN 24 CITIES AND LARGER TOWNS OF MASSACHUSETTS.

Forty-five deaths were reported from the principal infectious diseases: diphtheria and croup, 19; typhoid fever. 8; cerebro-spinal meningitis 6; scarlet-fever, 3; erysipelas, 2; whooping-cough, 2; puerperal fever, 1.

No deaths were reported from small-pox, measles and malarial fever.

There were 73 deaths from acute lung diseases; consumption, 46; and still-births, 34.

From diarrhœal diseases: Springfield, 2, Boston and Fall River, 1 each. From scarlet-fever: Boston, 2, New Bedford, 1. From erysipelas: Boston, Malden and Haverhill, 1 each. From whooping-cough: Springfield and Haverhill, 1 each. From puerperal fever: Medford, 1.

Deaths under five years of age numbered 184, as compared with 116 for the preceding week.

Deaths from the principal infectious diseases numbered 45, as compared with 29 for the preceding week.

The death rates for the week were: Boston, 17 57; Worcester, 14.35; Fall River, 15.66; Lowell, 24.71; Cambridge, 12.00; Lynn, 11.95; New Bedford, 16.66; Somerville, ——; Lawrence, 14.05; Springfield, 20.79; Holyoke, ——; Salem, 14.42; Brockton, 2 90; Malden, 20.54; Chelsea, 19.06; Haverhill, 19.86; Gloucester, ——; Newton, 5.37; Fitchburg, 14.65; Taunton, 23.05; Quincy, ——; Pittsfield, ——; Waltham, 21.45; Everett, ——; North Adams, ——; Northampton, ——; Chicopee, ——; Medford, 16.42; Marlborough, ——; Newburyport, 7.02; Woburn, ——.

The total death rate for the week was 16.47, as compared with 14.16 and 17.06 for the previous two weeks.

CASES OF INFECTIOUS DISEASES REPORTED TO THE STATE BOARD OF HEALTH DURING THE WEEK ENDING DEC. 25, 1897.

(Under the Provisions of Chapter 302 of the Acts of 1893.)

Scarlet-fever,	59	Measles,	30
Diphtheria and croup,	119	Typhoid fever,	29

(SIGNED) S. W. ABBOTT, M.D., *Secretary of the State Board of Health.*

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*		RAIN-FALL	
Week ending Saturday, Dec. 25, 1897.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A. M.	8 P. M.	MEAN.	8 A. M.	8 P. M.	8 A. M.	8 P. M.		8 A. M.	8 P. M.	HOURS DURATION.	AMOUNT IN INCHES.
Sunday, 19,	30.31	18	23	14	69	68	68	N.W.	N.W.	18	19		C.	C.		0.00
Monday, 20,	30.24	22	30	13	56	66	61	N.W.	S.	12	8		O.	N.		0.00
Tuesday, 21,	29.76	28	34	23	94	82	88	N.W.	N.W.	15	8		N.	C.		0.16
Wednes'y, 22,	29.82	25	32	18	66	89	78	N W.	S.W.	12	7		O.	O.		0.00
Thursday, 23,	29.59	28	33	23	84	65	74	N.W.	W.	12	17		F.	C.		0.00
Friday, 24,	29.94	18	23	13	47	45	46	W.	W.	14	16		C.	C.		0.00
Saturday, 25,	30.20	19	29	9	44	62	53	W.	W.	12	13		C.	C.		0.00
Week, - -	29.98		29	16			67									0.16

* O., Cloudy; C., Clear; F., Fair; G., Fog; H., Hazy; S., Smoky; R., Rain; T., Threatening; N., Snow.

J. HOLZER
BINDER
BOSTON MASS.